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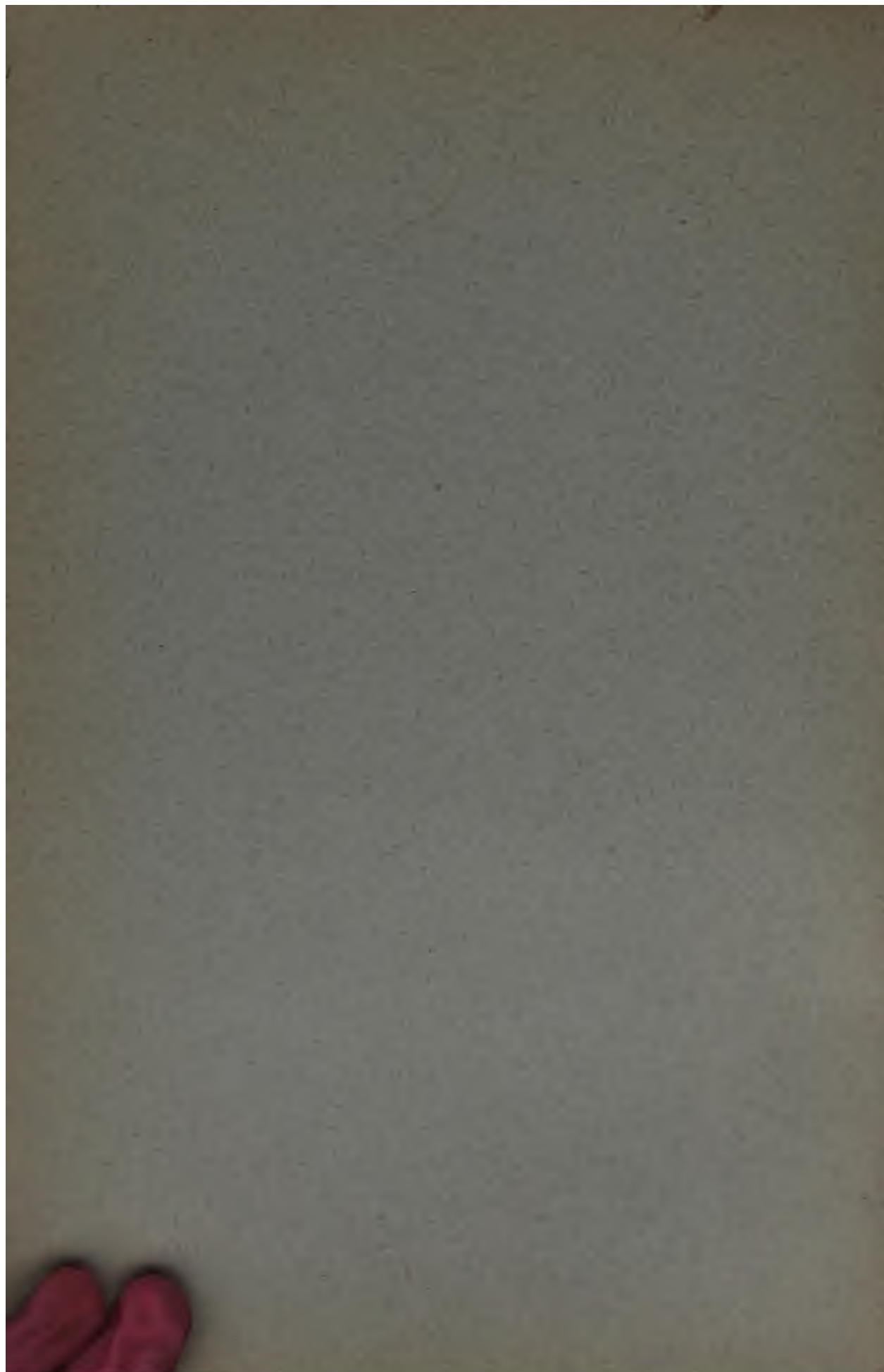
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1908



CLASSIFICATION
OF SUBJECTS OF INVENTION
OF THE
UNITED STATES PATENT OFFICE

ARRANGED BY DIVISIONS
WITH
CLASSES AND SUBCLASSES IN EACH

REVISED TO JULY 1, 1908

WASHINGTON
GOVERNMENT PRINTING OFFICE
1908

DEPARTMENT OF THE INTERIOR,

UNITED STATES PATENT OFFICE,

Washington, D. C., July 1, 1908.

The following is the official classification of patents and inventions in the Patent Office. No changes will be made therein except by order of the Commissioner.

Should occasion arise for any modification of this classification, either by the discontinuance of any title or by the addition of a new one, the matter will be presented to the Commissioner for his action.

Examiners will not transfer patented drawings from one class or subclass to another except on approval of the Examiner of Classification.

Changes in classes and subclasses will be published in the OFFICIAL GAZETTE.

EDWARD B. MOORE,

Commissioner of Patents.

SUBJECTS OF INVENTION.

Subjects of invention are divided into two hundred and thirty-seven classes, and assigned for examination to the forty-two Examining Divisions of this Office, as follows:

DIVISION I.—EXAMINER LOEFFLER.

Classes.

- 39. Fences.
- 55. Harrows and Diggers.
- 97. Plows.
- 111. Seeders and Planters.
- 47. Trees, Plants, and Flowers.

DIVISION II.—EXAMINER RAFTER.

Classes.

- 6. Bee Culture.
- 31. Dairy.
- 216. Label-Affixers.
- 129. Paper Files and Binders.
- 98. Pneumatics.
- 100. Presses.
- 186. Store-Service.
- 131. Tobacco.

DIVISION III.—EXAMINER RICH.

Classes.

- 148. Annealing and Tempering.
- 96. Coating with Metal.
- 204. Electrochemistry.
- 22. Metal-Founding.
- 75. Metallurgy.
- 207. Shaping Fluid Metal.

DIVISION IV.—EXAMINER POND.

Classes.

- 14. Bridges.
- 193. Conveyers.
- 212. Cranes and Derricks.
- 37. Excavating.
- 57. Hoisting.
- 61. Hydraulic Engineering.
- 214. Loading and Unloading.
- 189. Metallic Building Structures.

DIVISION V.—EXAMINER LANE.

Classes.

- 11. Bookbinding.
- 56. Harvesters.
- 63. Jewelry.
- 84. Music.

DIVISION VI.—EXAMINER SEAMAN.

Classes.

- 8. Bleaching and Dyeing.
- 23. Chemicals.
- 52. Explosives.
- 71. Fertilizers.
- 167. Medicines.
- 99. Preserving.
- 127. Sugar and Salt.

DIVISION VII.—EXAMINER TOWNSEND.

Classes.

- 46. Games and Toys.
- 185. Mechanical Motors.
- 88. Optics.
- 93. Paper Manufactures.
- 208. Velocipedes.

DIVISION VIII.—EXAMINER JOHNSON.

Classes.

- 5. Beds.
- 155. Chairs.
- 45. Furniture.
- 65. Kitchen and Table Articles.
- 211. Store Furniture.

DIVISION IX.—EXAMINER TRYON.

Classes.

- 230. Air and Gas Pumps.
- 169. Fire-Extinguishers.
- 138. Hydraulic Motors.
- 103. Pumps.
- 182. Sewerage.

DIVISION X.—EXAMINER MITCHELL.

Class.

- 21. Carriages and Wagons.

DIVISION XI.—EXAMINER DISNEY.

Classes.

- 12. Boot and Shoe Making.
- 36. Boots, Shoes, and Leggings.
- 218. Button, Eyelet, and Rivet Setting.
- 54. Harness.
- 69. Leather Manufactures.
- 1. Nailing and Stapling.
- 231. Whips and Whip Apparatus.

DIVISION XII.—EXAMINER WRIGHT.

Classes.

- 187. Elevators.
- 64. Journal-Boxes, Pulleys, and Shafting.
- 184. Lubrication.
- 74. Machine Elements.

DIVISION XIII.—EXAMINER SEWALL.

Classes.

- 86. Arms, Projectiles, and Explosive Charges. Making
- 10. Bolt, Nail, Nut, Rivet, and Screw Making.
- 77. Boring and Drilling.
- 79. Button-Making.
- 59. Chain, Staple, and Horseshoe Making.
- 85. Driven, Headed, and Screw-Threaded Fastenings.
- 90. Gear-Cutting, Milling, and Planing.
- 205. Metal-Drawing.
- 78. Metal Forging and Welding.
- 80. Metal-Rolling.
- 76. Metal Tools and Implements. Making
- 29. Metal-Working.
- 163. Needle and Pin Making.
- 82. Turning.

DIVISION XIV.—EXAMINER MAXSON.

Classes.

- 7. Compound Tools.
- 164. Cutting and Punching Sheets and Bars.
- 168. Farriery.
- 153. Metal-Bending.
- 201. Metal-Ornamenting.
- 113. Sheet-Metal Ware. Making
- 81. Tools.
- 140. Wire-Working.

DIVISION XV.—EXAMINER STAUFFER.

Classes.

- 107. Bread, Pastry, and Confection Making.
- 91. Coating.
- 44. Fuel.
- 49. Glass.
- 222. Hydraulic Cement and Lime.
- 154. Laminated Sheets and Fabrics.
- 92. Paper-Making.
- 94. Paving.
- 95. Photography.
- 25. Plastic Block and Earthenware Apparatus.
- 106. Plastic Compositions.
- 18. Plastics.

DIVISION XVI.—EXAMINER W. A. KINNAN.

Classes.

- 178. Telegraphy.
- 179. Telephony.

DIVISION XVII.—EXAMINER HENRY.

Classes.

- 192. Clutches.
- 199. Linotyping.
- 198. Matrix-Making.
- 151. Nut and Bolt Locks.
- 101. Printing.

DIVISION XVIII.—EXAMINER GSANTNER.

Classes.

- 162. Injectors and Ejectors.
- 160. Steam and Vacuum Pumps.
- 122. Steam-Boilers.
- 121. Steam-Engines.
- 136. Steam-Engine Valves.

DIVISION XIX.—EXAMINER MOORE.

Classes.

- 236. Dampers, Automatic
- 110. Furnaces.
- 237. Heat-Distributing Systems.
- 126. Stoves and Furnaces.

DIVISION XX.—EXAMINER WILKINSON.

Classes.

- 3. Artificial Limbs.
- 16. Builders' Hardware.
- 32. Dentistry.
- 70. Locks and Latches.
- 109. Safes.
- 27. Undertaking.

DIVISION XXI.—EXAMINER GILES.

Classes.

- 13. Brakes and Gins.
- 19. Carding.
- 26. Cloth-Finishing.
- 28. Cordage.
- 38. Felt and Fur.
- 66. Knitting and Netting.
- 117. Silk.
- 118. Spinning.
- 139. Weaving.

DIVISION XXII.—EXAMINER COLWELL.

Classes.

- 124. Air-Guns, Catapults, and Targets.
- 102. Ammunition and Explosive Devices.
 - 9. Boats and Buoys.
 - 42. Firearms.
- 115. Marine Propulsion.
 - 89. Ordnance.
- 239. Railway-Rails and Joints.
- 238. Railway-Ties and Fasteners.
- 114. Ships.

DIVISION XXIII.—EXAMINER NEWTON.

Classes.

- 181. Acoustics.
- 133. Coin-Handling.
 - 58. Horology.
- 234. Recorders.
- 235. Registers.
- 161. Time-Controlling Mechanism.

DIVISION XXIV.—EXAMINER DARBY.

Classes.

- 2. Apparel.
- 223. Apparel Apparatus.
- 112. Sewing-Machines.
- 128. Surgery.

DIVISION XXV.—EXAMINER WYNNE.

Classes.

- 17. Butchering.
- 83. Mills.
- 130. Threshing.
- 146. Vegetable Cutters and Crushers.

DIVISION XXVI.—EXAMINER SHAW.

Classes.

- 219. Electric Heating and Rheostats.
- 191. Electricity. Electric Railways.
- 171. Electricity. Generation.
- 172. Electricity. Motive Power.

DIVISION XXVII.—EXAMINER GOULD.

Classes.

- 15. Brushing and Scrubbing.
- 51. Grinding and Polishing.
- 68. Laundry.
- 141. Washing Apparatus.

DIVISION XXVIII.—EX. ANDERSON.

Classes.

- 123. Internal-Combustion Engines.
- 60. Miscellaneous Heat-Engine Plants.

DIVISION XXIX.—EXAMINER MORRIS.

Classes.

- 147. Coopering.
- 227. Fire-Escapes.
- 228. Ladders.
- 108. Roofs.
- 157. Wheelwright-Machines.
 - 20. Wooden Buildings.
- 143. Wood-Sawing.
- 142. Wood-Turning.
- 144. Woodworking.
- 145. Woodworking-Tools.

DIVISION XXX.—EXAMINER SULLIVAN.

Classes.

- 50. Fluid-Pressure Regulators.
- 67. Lamps and Gas-Fittings.
- 158. Liquid and Gaseous Fuel Burners.
- 197. Type-Writing Machines.

DIVISION XXXI.—EXAMINER ELY.

Classes.

- 195. Alcohol.
- 203. Ammonia, Water, and Wood Distillation.
- 202. Charcoal and Coke.
 - 48. Gas. Heating and Illuminating
- 149. Hides, Skins, and Leather.
- 134. Liquid Coating Compositions.
- 196. Mineral Oils.
 - 87. Oils, Fats, and Glue.
- 210. Water Purification.

DIVISION XXXII.—EXAMINER BANCROFT.

Classes.

- 209. Carbonating Beverages.
- 225. Dispensing Beverages.
- 221. Dispensing-Cans.
- 220. Metallic Shipping and Storing Vessels.
- 226. Packaging Liquids.
 - 62. Refrigeration.

DIVISION XXXIII.—EX. W. A. COWLES.

Classes.

- 30. Cutlery.
- 53. Domestic Cooking Vessels.
- 174. Electricity. Medical and Surgical.
- 177. Electric Signaling.
 - 72. Masonry and Concrete Structures.
- 135. Tents, Canopies, Umbrellas, and Canes.

DIVISION XXXIV.—EXAMINER SIMPSON.

Classes.

- 188. Railway-Brakes.
- 105. Railway Rolling-Stock.
- 104. Railways.

DIVISION XXXV.—EXAMINER NIXON.

Classes.

- 24. Buckles, Buttons, Clasps, Etc.
- 40. Card, Picture, and Sign Exhibiting.
- 241. Garment-Supporters.
- 116. Signals.
- 132. Toilet.

DIVISION XXXVI.—EXAMINER MORTON.

Classes.

- 156. Curtains, Shades, and Screens.
- 33. Drafting.
- 34. Driers.
- 159. Engraving.
- 73. Measuring Instruments.
- 170. Wind-Wheels.

DIVISION XXXVII.—EX. A. F. KINNAN.

Classes.

- 173. Electricity. Conductors.
- 175. Electricity. General Applications.
- 176. Electric Lighting.

DIVISION XXXVIII.—EXAM'R TUCKER.

Classes.

- 166. Artesian and Oil Wells.
- 215. Bottles and Jars.
- 119. Care of Live Stock.
- 35. Educational Appliances.

DIVISION XXXVIII.—EXAM'R TUCKER.—
Continued.

Classes.—Continued.

- 43. Fishing and Trapping.
- 120. Stationery.
- 125. Stone-Working.

DIVISION XXXIX.—EX. A. W. COWLES.

Classes.

- 4. Baths and Closets.
- 137. Water Distribution.

DIVISION XL.—EXAMINER MERRITT.

Classes.

- 190. Baggage.
- 194. Check-Controlled Apparatus.
- 150. Cloth, Leather, and Rubber Receptacles.
- 232. Deposit and Collection Receptacles.
- 41. Fine Arts.
- 240. Lighting-Fixtures.
- 224. Package and Article Carriers.
- 229. Paper Receptacles.
- 206. Special Receptacles and Packages.
- 217. Wooden Receptacles.

DIVISION XLI.—EXAMINER BROWN.

Classes.

- 213. Railway Draft Appliances.
- 152. Resilient Tires and Wheels.

TRADE-MARK DIVISION.—EXAMINER
CHAPMAN.

Classes.

- 165. Designs.
- Trade-Marks.
- Prints and Labels.

CLASSES NUMERICALLY ARRANGED.

Number.	Class.	Division.	Number.	Class.	Division.
1	Nailing and stapling.....	11	93	Paper manufactures.....	7
2	Apparel.....	24	94	Paving.....	15
3	Artificial limbs.....	20	95	Photography.....	15
4	Baths and closets.....	39	96	Coating with metal.....	3
5	Beds.....	8	97	Plows.....	1
6	Bee culture.....	2	98	Pneumatics.....	2
7	Compound tools.....	14	99	Preserving.....	6
8	Bleaching and dyeing.....	6	100	Presses.....	2
9	Boats and buoys.....	22	101	Printing.....	17
10	Bolt, nail, nut, rivet, and screw making.....	13	102	Ammunition and explosive devices.....	22
11	Bookbinding.....	5	103	Pumps.....	9
12	Boot and shoe making.....	11	104	Railways.....	34
13	Brakes and gins.....	21	105	Railway rolling-stock.....	34
14	Bridges.....	4	106	Plastic compositions.....	15
15	Brushing and scrubbing.....	27	107	Bread, pastry, and confection making.....	15
16	Builders' hardware.....	20	108	Roofs.....	29
17	Butchering.....	25	109	Safes.....	20
18	Plastics.....	15	110	Furnaces.....	19
19	Carding.....	21	111	Seeders and planters.....	1
20	Wooden buildings.....	29	112	Sewing-machines.....	24
21	Carriages and wagons.....	10	113	Sheet-metal ware.....	14
22	Metal-founding.....	3	114	Ships.....	22
23	Chemicals.....	6	115	Marine propulsion.....	22
24	Buckles, buttons, clasps, etc.....	35	116	Signals.....	35
25	Plastic block and earthenware apparatus.....	15	117	Silk.....	21
26	Cloth-finishing.....	21	118	Spinning.....	21
27	Undertaking.....	20	119	Care of live stock.....	38
28	Cordage.....	20	120	Stationery.....	38
29	Metal-working.....	13	121	Steam-engines.....	18
30	Cutlery.....	33	122	Steam-boilers.....	18
31	Dairy.....	2	123	Internal-combustion engines.....	28
32	Dentistry.....	20	124	Air-guns, catapults, and targets.....	22
33	Drafting.....	36	125	Stone-working.....	38
34	Driers.....	36	126	Stoves and furnaces.....	19
35	Educational appliances.....	38	127	Sugar and salt.....	6
36	Boots, shoes, and leggings.....	11	128	Surgery.....	24
37	Excavating.....	4	129	Paper files and binders.....	2
38	Felt and fur.....	21	130	Threshing.....	25
39	Fences.....	1	131	Tobacco.....	2
40	Card, picture, and sign exhibiting.....	35	132	Toilet.....	35
41	Fine arts.....	40	133	Coin-handling.....	23
42	Firearms.....	22	134	Liquid coating compositions.....	31
43	Fishing and trapping.....	38	135	Tents, canopies, umbrellas, and canes.....	33
44	Fuel.....	15	136	Steam-engine valves.....	18
45	Furniture.....	8	137	Water distribution.....	39
46	Games and toys.....	7	138	Hydraulic motors.....	9
47	Trees, plants, and flowers.....	1	139	Weaving.....	21
48	Gas. Heating and illuminating.....	31	140	Wire-working.....	14
49	Glass.....	15	141	Washing apparatus.....	27
50	Fluid-pressure regulators.....	30	142	Wood-turning.....	29
51	Grinding and polishing.....	27	143	Wood-sawing.....	29
52	Explosives.....	6	144	Woodworking.....	29
53	Domestic cooking vessels.....	33	145	Woodworking-tools.....	29
54	Harness.....	11	146	Vegetable cutters and crushers.....	25
55	Harrows and diggers.....	1	147	Coopering.....	29
56	Harvesters.....	5	148	Annealing and tempering.....	3
57	Hoisting.....	4	149	Hides, skins, and leather.....	31
58	Horology.....	23	150	Cloth, leather, and rubber receptacles.....	40
59	Chain, staple, and horseshoe making.....	13	151	Nut and bolt locks.....	17
60	Miscellaneous heat-engine plants.....	28	152	Resilient tires and wheels.....	41
61	Hydraulic engineering.....	4	153	Metal-bending.....	14
62	Refrigeration.....	32	154	Laminated sheets and fabrics.....	15
63	Jewelry.....	5	155	Chairs.....	8
64	Journal-boxes, pulleys, and shafting.....	12	156	Curtains, shades, and screens.....	36
65	Kitchen and table articles.....	8	157	Wheelwright-machines.....	29
66	Knitting and netting.....	21	158	Liquid and gaseous fuel burners.....	30
67	Lamps and gas-fittings.....	30	159	Engraving.....	36
68	Laundry.....	27	160	Steam and vacuum pumps.....	18
69	Leather manufactures.....	11	161	Time-controlling mechanism.....	23
70	Locks and latches.....	20	162	Injectors and ejectors.....	18
71	Fertilizers.....	6	163	Needle and pin making.....	13
72	Masonry and concrete structures.....	33	164	Cutting and punching sheets and bars.....	14
73	Measuring instruments.....	36	165	DESIGNS (Trade-Mark Division).....	
74	Machine elements.....	12	166	Artesian and oil wells.....	38
75	Metallurgy.....	3	167	Medicines.....	6
76	Metal tools and implements. Making.....	13	168	Farriery.....	14
77	Boring and drilling.....	13	169	Fire-extinguishers.....	9
78	Metal forging and welding.....	13	170	Wind-wheels.....	36
79	Button-making.....	13	171	Electricity. Generation.....	26
80	Metal-rolling.....	13	172	Electricity. Motive power.....	26
81	Tools.....	14	173	Electricity. Conductors.....	37
82	Turning.....	13	174	Electricity. Medical and surgical.....	33
83	Mills.....	25	175	Electricity. General applications.....	37
84	Music.....	5	176	Electric lighting.....	37
85	Driven, headed, and screw-threaded fastenings.....	13	177	Electric signaling.....	33
86	Arms, projectiles, and explosive charges. Making.....	13	178	Telegraphy.....	16
87	Oils, fats, and glue.....	31	179	Telephony.....	16
88	Optics.....	7	181	Acoustics.....	23
89	Ordnance.....	22	182	Sewerage.....	9
90	Gear-cutting, milling, and planing.....	13	184	Lubrication.....	12
91	Coating.....	15	185	Mechanical motors.....	7
92	Paper-making.....	15	186	Store-service.....	2

CLASSES NUMERICALLY ARRANGED.—CONTINUED.

Number.	Class.	Division.	Number.	Class.	Division.
187	Elevators.....	12	215	Bottles and jars.....	38
188	Railway-brakes.....	34	216	Label-affixers.....	2
189	Metallic building structures.....	4	217	Wooden receptacles.....	40
190	Baggage.....	40	218	Button, eyelet, and rivet setting.....	11
191	Electricity. Electric railways.....	26	219	Electric heating and rheostats.....	26
192	Clutches.....	17	220	Metallic shipping and storing vessels.....	32
193	Conveyers.....	4	221	Dispensing-cans.....	32
194	Cheek-controlled apparatus.....	40	222	Hydraulic cement and lime.....	15
195	Alcohol.....	31	223	Apparel apparatus.....	24
196	Mineral oils.....	31	224	Package and article carriers.....	40
197	Type-writing machines.....	30	225	Dispensing beverages.....	32
198	Matrix-making.....	17	226	Packaging liquids.....	32
199	Linotyping.....	17	227	Fire-escapes.....	29
201	Metal-ornamenting.....	14	228	Ladders.....	29
202	Charcoal and coke.....	31	229	Paper receptacles.....	40
203	Ammonia, water, and wood distillation.....	31	230	Air and gas pumps.....	9
204	Electrochemistry.....	3	231	Whips and whip apparatus.....	11
205	Metal-drawing.....	13	232	Deposit and collection receptacles.....	40
206	Special receptacles and packages.....	40	234	Recorders.....	23
207	Shaping fluid metal.....	3	235	Registers.....	23
208	Velocipedes.....	7	236	Dampers. Automatic.....	19
209	Carbonating beverages.....	32	237	Heat-distributing systems.....	19
210	Water purification.....	31	238	Railway-ties and fasteners.....	22
211	Store furniture.....	8	239	Railway-rails and joints.....	22
212	Cranes and derricks.....	4	240	Lighting-fixtures.....	40
213	Railway draft appliances.....	41	241	Garment-supporters.....	35
214	Loading and unloading.....	4			

CLASSES ALPHABETICALLY ARRANGED.

Number.	Class.	Division.	Number.	Class.	Division.
181	Acoustics.....	23	44	Fuel.....	15
230	Air and gas pumps.....	9	110	Furnaces.....	19
124	Air-guns, catapults, and targets.....	22	45	Furniture.....	9
195	Alcohol.....	31	46	Games and toys.....	7
203	Ammonia, water, and wood distillation.....	31	241	Garment-supporters.....	35
102	Ammunition and explosive devices.....	22	48	Gas. Heating and illuminating.....	31
148	Annealing and tempering.....	3	90	Gear-cutting, milling, and planing.....	13
2	Apparel.....	24	49	Glass.....	15
223	Apparel apparatus.....	24	51	Grinding and polishing.....	27
86	Arms, projectiles, and explosive charges. Making.....	13	54	Harness.....	11
166	Artesian and oil wells.....	38	55	Harrows and diggers.....	5
3	Artificial limbs.....	20	56	Harvesters.....	5
190	Baggage.....	40	237	Heat-distributing systems.....	19
4	Baths and closets.....	39	149	Hides, skins, and leather.....	31
5	Beds.....	8	57	Hoisting.....	4
6	Bee culture.....	2	58	Horology.....	23
8	Bleaching and dyeing.....	6	222	Hydraulic cement and lime.....	15
9	Boats and buoys.....	22	61	Hydraulic engineering.....	4
10	Bolt, nail, nut, rivet, and screw making.....	13	138	Hydraulic motors.....	9
11	Bookbinding.....	5	162	Injectors and ejectors.....	18
12	Boot and shoe making.....	11	123	Internal-combustion engines.....	28
36	Boots, shoes, and leggings.....	11	63	Jewelry.....	5
77	Boring and drilling.....	13	64	Journal-boxes, pulleys, and shafting.....	12
215	Bottles and jars.....	38	65	Kitchen and table articles.....	8
13	Brakes and gins.....	21	66	Knitting and netting.....	21
107	Bread, pastry, and confection making.....	15	216	Label-affixers.....	2
14	Bridges.....	4	228	Ladders.....	29
15	Brushing and scrubbing.....	27	154	Laminated sheets and fabrics.....	15
24	Buckles, buttons, clasps, etc.....	35	67	Lamps and gas-fittings.....	30
16	Builders' hardware.....	20	68	Laundry.....	27
17	Butchering.....	25	69	Leather manufactures.....	11
218	Button, eyelet, and rivet setting.....	11	240	Lighting-fixtures.....	40
79	Button-making.....	13	199	Linotyping.....	17
209	Carbonating beverages.....	32	158	Liquid and gaseous fuel burners.....	30
19	Carding.....	21	134	Liquid coating compositions.....	31
40	Card, picture, and sign exhibiting.....	35	214	Loading and unloading.....	4
119	Care of live stock.....	38	70	Locks and latches.....	20
21	Carriages and wagons.....	10	184	Lubrication.....	12
59	Chain, staple, and horseshoe making.....	13	74	Machine elements.....	12
155	Chairs.....	8	115	Marine propulsion.....	22
202	Charcoal and coke.....	31	72	Masonry and concrete structures.....	33
194	Check-controlled apparatus.....	40	198	Matrix-making.....	17
23	Chemicals.....	6	73	Measuring instruments.....	36
26	Cloth-finishing.....	21	185	Mechanical motors.....	7
150	Cloth, leather, and rubber receptacles.....	40	167	Medicines.....	6
192	Clutches.....	17	153	Metal-bending.....	14
91	Coating.....	15	205	Metal-drawing.....	13
96	Coating with metal.....	3	78	Metal forging and welding.....	13
133	Coin-handling.....	23	22	Metal-founding.....	3
7	Compound tools.....	14	189	Metallic building structures.....	4
193	Conveyers.....	4	220	Metallic shipping and storing vessels.....	32
147	Coopering.....	29	75	Metallurgy.....	3
28	Cordage.....	21	201	Metal-ornamenting.....	14
212	Cranes and derricks.....	4	80	Metal-rolling.....	13
156	Curtains, shades, and screens.....	36	76	Metal tools and implements. Making.....	13
30	Cutlery.....	33	29	Metal-working.....	13
164	Cutting and punching sheets and bars.....	14	83	Mills.....	25
31	Dairy.....	2	196	Mineral oils.....	31
236	Dampers, automatic.....	19	60	Miscellaneous heat-engine plants.....	28
32	Dentistry.....	20	84	Music.....	5
232	Deposit and collection receptacles.....	40	1	Nailing and stapling.....	11
165	DESIGNS (Trade-Mark Division).....	163		Needle and pin making.....	13
225	Dispensing beverages.....	32	151	Nut and bolt locks.....	17
221	Dispensing-cans.....	32	87	Oils, fats, and glue.....	31
53	Domestic cooking vessels.....	33	88	Optics.....	7
33	Drafting.....	36	89	Ordnance.....	22
34	Driers.....	36	224	Package and article carriers.....	40
85	Driven, headed, and screw-threaded fastenings.....	13	226	Packaging liquids.....	32
35	Educational appliances.....	38	129	Paper files and binders.....	2
219	Electric heating and rheostats.....	26	92	Paper-making.....	15
173	Electricity. Conductors.....	37	93	Paper manufactures.....	7
191	Electricity. Electric railways.....	26	229	Paper receptacles.....	40
171	Electricity. Generation.....	26	94	Paving.....	15
174	Electricity. Medical and surgical.....	33	95	Photography.....	15
172	Electricity. Motive power.....	26	25	Plastic block and earthenware apparatus.....	15
175	Electricity. General applications.....	37	106	Plastic compositions.....	15
176	Electric lighting.....	37	18	Plastics.....	15
177	Electric signalling.....	33	97	Plows.....	1
204	Electrochemistry.....	3	98	Pneumatics.....	2
187	Elevators.....	12	99	Preserving.....	6
159	Engraving.....	36	100	Presses.....	2
37	Excavating.....	4	101	Printing.....	17
52	Explosives.....	6	103	Pumps.....	9
168	Farriery.....	14	188	Railway-brakes.....	34
38	Felt and fur.....	21	213	Railway draft appliances.....	41
39	Fences.....	1	239	Railway-rails and joints.....	23
71	Fertilizers.....	6	105	Railway rolling-stock.....	34
41	Fine arts.....	40	104	Railways.....	34
42	Firearms.....	22	238	Railway-ties and fasteners.....	22
227	Fire-escape.....	29	234	Recorders.....	23
169	Fire-extinguishers.....	9	62	Refrigeration.....	32
43	Fishing and trapping.....	38	235	Registers.....	23
50	Fluid-pressure regulators.....	30	152	Resilient tires and wheels.....	41

CLASSES ALPHABETICALLY ARRANGED.—CONTINUED.

Number.	Class.	Division.	Number.	Class.	Division.
108	Roofs.....	29	130	Threshing.....	25
109	Safes.....	20	161	Time-controlling mechanism.....	23
111	Seeders and planters.....	1	131	Tobacco.....	2
182	Sewerage.....	9	132	Toilet.....	35
112	Sewing-machines.....	24	81	Tools.....	14
207	Shaping fluid metal.....	3	47	Trees, plants, and flowers.....	1
113	Sheet-metal ware. Making.....	14	82	Turning.....	13
114	Ships.....	22	197	Type-writing machines.....	30
116	Signals.....	35	27	Undertaking.....	20
117	Silk.....	21	146	Vegetable cutters and crushers.....	25
206	Special receptacles and packages.....	40	208	Velocipedes.....	7
118	Spinning.....	21	141	Washing apparatus.....	27
120	Stationery.....	38	137	Water distribution.....	39
160	Steam and vacuum pumps.....	18	210	Water purification.....	31
122	Steam-boilers.....	18	139	Weaving.....	21
121	Steam-engines.....	18	157	Wheelwright-machines.....	29
136	Steam-engine valves.....	18	231	Whips and whip apparatus.....	11
125	Stone-working.....	38	170	Wind-wheels.....	36
211	Store furniture.....	8	140	Wire-working.....	14
186	Store-service.....	2	20	Wooden buildings.....	29
126	Stoves and furnaces.....	19	217	Wooden receptacles.....	40
127	Sugar and salt.....	6	143	Wood-sawing.....	29
128	Surgery.....	24	142	Wood-turning.....	29
178	Telegraphy.....	16	144	Woodworking.....	29
179	Telephony.....	16	145	Woodworking-tools.....	29
135	Tents, canopies, umbrellas, and canes.....	33			

NOTE.—Classes formerly numbered 180 183, 200, and 233 are obsolete

DIVISION I.

EXAMINER LOEFFLER.

CLASSES.—39, Fences; 55, Harrows and Diggers; 97, Plows; 111, Seeders and Planters; 47, Trees, Plants, and Flowers.

CLASS 39.—FENCES. (1.)

Subclasses.

- | | |
|--|---|
| <p>Fences—
 10. Barbed—
 70. Linked,
 102. Ribbon,
 71. Visible,
 64. Cat-guards,
 4. Flood,
 6. Iron—
 104. Panel,
 9. Wire—
 72. Fabric,
 12. Fasteners—
 76. Clamps,
 105. Hooks,
 106. Loops,
 107. Sleeves,
 108. Joints,
 109. Panel,
 73. Picket,
 74. Stays—
 78. Linked,
 79. Lock-plates,
 110. Lock-rod,
 111. Tied,
 112. Wire,
 75. Strands,
 Stretchers—
 52. Clutch-bars,
 46. Compensators—
 113. Levers,
 Springs—
 114. Compression,
 115. Leaf,
 116. Tension,
 Winders—
 117. Clutch,
 118. Spring,
 53. Grips—
 119. Sliding-jaw,
 54. Levers—
 55. Attached,
 120. Double-clutch,
 121. Handle-jaw,
 56. Loopers,
 47. Mid-wire take-ups—
 122. Journaled,
 123. Tool-wound,
 48. Path-closers,
 45. Permanent,
 Post-winders—
 124. Bracket,
 125. Peg,
 126. Roller,
 50. Vertical,
 57. Rack-bars,
 58. Ratchet-bars—
 127. Single-ratchet,
 59. Reel-carriers—
 128. Automatic,
 51. Removable,
 63. Screws,
 60. Tongs,
 61. Twin hooks,
 62. Windlasses,
 Wood—
 80. Panel—
 83. Suspended,
 84. Worm,
 81. Picket—
 85. Panel,
 82. Tied.</p> | <p>5. Gates—
 15. Compound,
 140. Counter-guard oper-
 ators,
 24. Dropping,
 21. Expanding,
 22. Jump,
 Openers—
 91. Cab-door,
 92. Car-door,
 93. Car-platform door,
 96. Hatch,
 94. Sliding-door,
 95. Swinging-door,
 97. Window,
 23. Oscillating,
 103. Race-starters,
 11. Railway—
 42. Cattle-guard,
 38. Electric,
 36. Mast—
 35. Automatic,
 41. Platform-guard,
 37. Pneumatic,
 39. Rocking,
 44. Sliding,
 43. Swinging,
 40. Vertically-moving,
 7. Sliding—
 29. Lever-openers,
 28. Pulley or rack openers,
 30. Suspended,
 31. Vibrating tracks,
 32. Sliding and swinging—
 33. Hinged-roller,
 34. Suspending-frames,
 8. Swinging—
 18. Folding-panel,
 14. Hand-openers,
 20. Load-openers,
 17. Rotary,
 16. Self-closers,
 25. Tilting,
 19. Vertically-adjustable,
 13. Tilting—
 26. Folding-panel,
 99. Turnstiles,
 100. Wire gates—
 101. Frameless.
 Posts—
 Bases—
 86. Metal,
 88. Wood,
 Braces—
 89. Lateral,
 90. Longitudinal—
 131. Strut,
 132. Tie,
 133. Truss,
 67. Metal—
 134. Anchors,
 135. Compound,
 136. Doubled,
 137. Flanged,
 138. Flat,
 139. Folded,
 69. Wood.</p> |
|--|---|

CLASS 55.—HARROWS AND DIGGERS. (1.)

Subclasses.

- | | |
|--|--|
| <p>1. Clod-crushers—
 21. Barred and corrugated
 rollers—
 77. Disks,
 22. Crush-bars,
 23. Crush-bars and harrows,
 24. Toothed rollers and
 wheels—
 78. Geared.
 2. Forks—
 25. Adjustable heads,
 26. Combined forks and
 shovels,
 27. Fodder-forks,
 28. Potato forks and shov-
 els—
 79. Fulcrumed.
 3. Harrows—
 80. Center-hinged,
 29. Changeable-form,
 30. Disk—
 122. Center-cutter,
 123. Disks,
 81. Pivoted-gang—
 82. Center-cutter,
 83. Multiple-gang,
 124. Pivot-swung,
 31. Expandible—
 125. V-shaped,
 32. Flexible,
 84. Multiple,
 11. Revolving—
 126. Center-hinged,
 85. Geared,
 13. Rotary,
 33. Spring-tooth—
 127. Weeders,
 86. Tooth-bars,
 34. Tooth-cleaners,
 149. Trailing-tooth,
 128. V-shaped,
 19. Wheel—
 87. Center-hinged,
 73. Disk,
 88. Floating,
 89. Multiple,
 90. Pivoted tooth-bar,
 91. Riding attachments,
 20. Rotary,
 74. Spring—
 92. Pivoted tooth-bar,
 75. Trailing teeth,
 93. Winged,
 150. Winged.
 Harrow-teeth—
 35. Spike—
 94. Clamped,
 95. Nutted,
 96. Wedged,
 36. Spring—
 97. Sectional,
 37. Trailing and draw-cut.
 5. Hoes—
 38. Adjustable,
 98. Blades—
 99. Integral-shank,
 100. Integral-socket,
 39. Compound—
 40. Adjustable,
 101. Handles,
 41. Horizontal—
 42. Adjustable,
 43. Interchangeable,
 44. Toothed blades,
 45. Weeding.
 6. Land-rollers—
 46. Furrowers and markers,
 47. Pivoted,
 48. Weighted cylinders,
 49. Weighted frames.</p> | <p>7. Pivoted teeth.
 8. Pivoted tooth-bars—
 76. Frameless,
 102. Lever-actuated—
 103. Spike-tooth—
 129. Yielding-bar,
 104. Spring-tooth,
 105. Trailing-tooth,
 130. Spring-tooth,
 131. Yielding-bar.
 9. Potato-diggers—
 50. Bearing-wheel separa-
 tors,
 108. Beet-lifters,
 107. Cutters,
 51. Endless-carrier—
 132. Platform inferior,
 133. Platform superior,
 134. Plow pivoted inde-
 pendently,
 135. Plow pivoted on car-
 rier front,
 136. Plow pivoted on car-
 rier rear,
 137. Plow rigid,
 138. Rakes,
 108. Graspers,
 54. Plow and screen—
 139. Plow rigid,
 53. Plow-clearers—
 109. Reels,
 55. Plow, vibrating screens—
 110. Cam—
 140. Plow rigid,
 111. Crank—
 141. Plow rigid,
 142. Plow rigid,
 112. Sidewise—
 143. Plow rigid,
 113. Tappet—
 144. Plow rigid,
 57. Screen-cylinders,
 56. Sifting - wheels, side - de-
 livery,
 58. Spiral conveyers,
 59. Toothed-drum.
 10. Rakes—
 114. Heads,
 145. Sweepers,
 146. Tooth-cleaners.
 12. Rollers and harrows.
 14. Shovels—
 115. Attachments,
 147. Blades,
 151. Fire,
 116. Handles,
 117. Sifting.
 Stalk-choppers—
 60. Draw-cut,
 63. Reciprocating,
 Revolving—
 61. Horizontal—
 118. Breakers,
 62. Vertical,
 64. Vine-cutters.
 Stalk-pullers—
 65. Hand—
 148. Tongs,
 66. Wheel.
 17. Stone-gatherers.
 18. Transplanters—
 119. Ballers,
 67. Dibbles,
 68. Pivoted jaws,
 70. Post-hole diggers—
 71. Pivoted jaws,
 69. Sliding jaws,
 72. Wheel-machines—
 120. Tree-conveyers,
 121. Wheel-planters.</p> |
|--|--|

DIVISION I.—CONTINUED.

CLASS 97.—PLOWB. (1.)

Subclasses.

- | | |
|---------------------|------------------------------|
| 1. Attachments— | 11. Cultivator-teeth. |
| 44. Harrow. | 13. Fenders. |
| 2. Beams. | 14. Gage wheels and runners. |
| 3. Cleaners. | 15. Handles. |
| 4. Clevises. | 17. Landsides. |
| 6. Colters— | 18. Moldboards— |
| 43. Rolling. | 23. Revolving. |
| 5. Corn-coverers. | 21. Plows— |
| 8. Cotton-choppers— | 12. Ditching, |
| 45. Reciprocating, | 19. Mole, |
| 46. Revolving— | 40. Revolving. |
| 47. Horizontal, | 26. Shovel. |
| 48. Scrapers, | 27. Sidehill, |
| 49. Spacing-wheels. | 30. Steam— |
| 9. Cotton-scrapers. | 50. Alternating, |
| 7. Couplings. | 51. Rotary, horizontal, |
| 10. Cultivators— | 52. Screw, |
| 41. Hand— | 53. Spaders, |
| 42. Wheel, | 36. Wheel. |
| 20. Parallel, | 22. Points. |
| 37. Revolving, | 24. Ridgers. |
| 38. Rolling, | 28. Sod-cutters. |
| 25. Rotary— | 29. Standards. |
| 39. Horizontal, | 32. Subsoilers. |
| 31. Straddle-row, | 33. Weed-turners. |
| 34. Wheel— | |
| 35. Straddle-row. | |

CLASS 111.—SEEDERS AND PLANTERS. (1.)

Subclasses.

- | | |
|-------------------------------|---------------------------|
| 1. Broadcast— | Fertilizer-distributors— |
| 38. Centrifugal scatterers, | 13. Hand, |
| 2. Hand— | 14. Revolving hoppers, |
| 39. Centrifugal scatterers, | 15. Walking. |
| 3. Revolving hoppers, | 17. Force-feed. |
| 4. Walking. | 19. Grain-drill cleaners. |
| 5. Check-row— | 24. Land-markers— |
| 42. Anchors, | 41. Liquid and powder. |
| 46. Endless belts, | 25. Pivoted seed-cups. |
| 44. Knots, | Planters— |
| 45. Reels, | 6. Corn, |
| 43. Wire-doers. | 7. Cotton, |
| 8. Cups on belt. | 16. Foot, |
| 9. Cups on disk. | 20. Hand— |
| Drills— | 21. Oscillating, |
| 35. Adjustable rank, | 22. Reciprocating, |
| 18. Grain, | 23. Rotating, |
| 36. Walking. | 27. Potato— |
| 10. Drills and broadcast com- | 28. Walking, |
| bined. | 32. Walking— |
| 11. Drill-teeth. | 33. Vibrating hoppers. |
| 12. Elastic feed-wheels. | 26. Plungers. |
| 34. Fertilizer-distributors— | 37. Rolling hoppers. |
| 40. Feeding-belts, | 31. Screw-feed. |

CLASS 47.—TREES, PLANTS, AND FLOWERS. (1.)

Subclasses.

- | | |
|------------------------------|---------------------------|
| 15. Blanching. | 29. Sap-buckets. |
| 17. False stems. | 11. Sap-spouts. |
| 18. Flower-holders. | 30. Seed-testers. |
| 19. Flower-pots. | 31. Stays and props. |
| 20. Flower-work. | 32. Strawberry-growing. |
| 21. Garden-beds. | 34. Transplanting-pots. |
| 6. Grafting. | 35. Trap-belts. |
| 22. Hand-screens. | 36. Treatment— |
| 23. Hanging baskets. | 37. Implements. |
| 13. Hedge-training. | 33. Tree-covering. |
| 7. Hop culture. | 12. Trellises. |
| 24. Lawn-vases. | Trunk-guards— |
| 27. Plant frames and houses. | 38. Cattle. |
| 25. Plant-stands— | 39. Vermin. |
| 26. Revolving. | 40. Turpentine-gathering. |
| 28. Root-guards. | 41. Window-gardens. |

DIVISION II.

EXAMINER RAFTER.

CLASSES.—6, Bee Culture; 31, Dairy; 216, Label-Affixers; 129, Paper Files and Binders; 98, Pneumatics; 100, Presses; 186, Store-Service; 131, Tobacco.

CLASS 6.—BEE CULTURE. (II.)

(For definitions see Bulletin No. 18, p. 17.)

Subclasses.

- | | |
|-------------------------------|-------------------------|
| Appliances— | 1. Beehives— |
| 11. Comb-foundation, | 5. Bee-feeders, |
| 10. Comb-frames, | 4. Entrances and exits, |
| 8. Hive-connectors, | 2. Frames— |
| 12. Implements, | 3. Pivoted, |
| 9. Queen-bee cells and cages, | 6. Stands. |
| 7. Swarm. | |

CLASS 31.—DAIRY. (II.)

Subclasses.

- | | |
|---|------------------------------------|
| 64. Butter— | Churns— |
| 65. Cutters, | 17. Vibrating, |
| 66. Processes. | 18. Working body. |
| 25. Butter workers and molds. | 27. Cream-pumps. |
| 67. Cheese— | 63. Drink-mixers. |
| 68. Cutters, | 75. Milk-cans— |
| 69. Processes. | 76. Breasts, |
| 21. Cheese-hoops. | 77. Closures— |
| 26. Cheese-turners. | 78. Locking— |
| 22. Cheese-vats and curd-breakers. | 79. Key, |
| 7. Churns— | 80. Rotary, |
| 9. Double-acting, | 1. Coolers— |
| Reciprocating— | 82. Internal-tube, |
| Crank mechanism— | 83. Jacketed, |
| 29. Multiple-dasher, | 84. Ventilated, |
| 30. Single-dasher, | 85. Creaming— |
| 31. Combined lever and crank mechanism, | 86. Agitators, |
| 32. Foot mechanism, | 87. Vacuum, |
| 33. Hand and foot mechanism, | 88. Floats. |
| Lever mechanism— | 70. Milking machines— |
| Multiple-dasher, | 71. Catheter— |
| 34. Single-dasher, | 94. Suction. |
| 36. Rocking-seat mechanism, | Compression— |
| 37. Without operating mechanism, | 95. Fluid pulsations. |
| Rotary— | 96. Mechanical. |
| 38. Diagonal-dasher, | 73. Suction— |
| 39. Horizontal single-dasher, | 97. Automatic cut-offs. |
| Horizontal double-dasher— | 98. Intermittent— |
| 40. Concentric shafts, | 99. Pulsators. |
| 41. Parallel shafts, | Suction and compression— |
| 42. Vertical single-dasher, | 100. External pressure pulsations. |
| Churns— | 101. External suction pulsations. |
| Rotary— | 102. Teat cups. |
| Vertical double-dasher— | 13. Milk-stools. |
| 43. Concentric shafts, | 89. Milk-treating— |
| 44. Parallel shafts, | 90. Aerating, |
| | 91. Circulation, |
| | 93. Cooling, |
| | 92. Vats. |
| | 14. Pails and strainers. |
| | 28. Tables and racks. |

CLASS 216.—LABEL-AFFIXERS. (II.)

Subclasses.

- | | |
|-----------------------------|----------------------|
| 1. Cutter and plunger. | 5. Runway-machines— |
| 2. Label-affixers. | 8. Gravity-feed, |
| 3. Magazine. | 6. Label-bed— |
| 4. Pickers. | 7. Conveyor-feed, |
| 10. Paper-hanging machines— | 9. Revolving-support |
| 11. Affixing. | |

CLASS 129.—PAPER FILES AND BINDERS. (II.)

(For definitions see Supplement No. 3, p. 2696.)

Subclasses.

- | | |
|-------------------------------------|--|
| 25. Binding-wires. | 1. Miscellaneous. |
| 35. Clamping— | 18. Notched leaves. |
| 36. Parallel bars, | 21. Pins— |
| 37. Spring-backs. | 22. Cord-carrying, |
| 2. Continuous-web. | 23. Guarded, |
| 13. Extensible pins and covers. | 24. Hinged. |
| 43. File-boxes. | 4. Pins and followers— |
| Fold-engaging— | 5. Spring— |
| 38. Bars, | 6. Sliding. |
| 39. Cords, | 17. Pins and hinged backs. |
| 40. Hooks. | 3. Pins and indexes. |
| 26. Followers— | 7. Pins and punches. |
| 27. Locking— | 8. Pins and transfer-wires— |
| 29. Lever-operated catch, | 9. Sliding-base, |
| 28. Racks, | 10. Swinging, |
| 30. Spring-operated catch, | 11. Tilting. |
| 31. Tilting-release, | 12. Projecting pins and covers. |
| 32. Spring— | 20. Scrap-book and album leaves. |
| 33. Double-acting. | 19. Stubs and flaps. |
| 14. Followers and index-partitions. | 41. Transverse cords. |
| 34. Hinged leaf-supports. | 42. Transverse cords and leaf-attachers. |
| 15. Indexes— | |
| 16. Card. | |

CLASS 98.—PNEUMATICS. (II.)

Subclasses.

- | | |
|---|--|
| 1. Aerial navigation. | Ventilation— |
| Chimney-cowls— | Car— |
| Ejector— | Forced-draft— |
| 2. Draft-wheel, | 19. Axle-motor, |
| 3. Directing-vane, | 20. Wind-motor, |
| 4. Stationary, | Natural-draft— |
| 5. Swing-valve, | 21. Dust and draft guards, |
| 6. Tilting, | 22. Injectors and ejectors, |
| 7. Vane and draft-wheel, | 23. Systems, |
| 8. Injector, | 24. Train-pipe, |
| 9. Injector-ejector. | 33. Combined ventilators and cleaners— |
| Ventilation— | 34. Absorbent surface, |
| 39. Air moistening, cooling, and cleansing— | 35. Drip-surface, |
| Absorbent surface, | 38. Dry filters, |
| 40. Atomizers, | 36. Water-tanks— |
| 41. Centrifugal, | 37. Spray-wheel, |
| 42. Drip-surfaces, | 25. Flue-heaters, |
| 43. Dry filters, | 26. Grain, |
| 43. Sprinkling-chamber, | 27. House, |
| 47. Vaporizing-pans, | 28. Mine. |
| 45. Water-tanks— | 30. Ventilating-chimneys. |
| 46. Spray-wheel, | 31. Window-ventilators— |
| Car— | 32. Condensation-preventers. |
| Fans— | |
| 17. Axle-driven, | |
| 18. Wind-driven, | |

DIVISION II.—CONTINUED.

CLASS 100.—PRESSES. (H.)

Subclasses.

- | | |
|---|--|
| <p>Baling—
Articles and attachments—</p> <ol style="list-style-type: none"> 14. Bales and bale-covers, 15. Bale-band tighteners, 16. Bale-ejectors, 20. Binders, 19. Boxes and frames, 21. Brakes, 22. Condensers, 23. Discharge-end contracting devices, 24. Division-blocks and block-inserters, 25. Feeders, 27. Indicators, 28. Movable bale-boxes, 29. Plungers, 30. Retainers, 1. Belt and roller, Plunger— 2. Cam, 3. Crank and pitman, 4. Lever, 5. Rack-bar and pinion, 6. Ratchet and grapple bar, 7. Rebouncing, 8. Screw, 11. Thrust-bar, 9. Toggle-joint, 10. Toggle-joint, inverted, 12. Windlass, 13. Screw, 65. Traction-operated. Bundling— 31. In lengths, 32. In lengths, shingles, 33. Wool. | <p>67. Copying—</p> <ol style="list-style-type: none"> 63. Fluid-pressure, 60. Hand-impressing, 61. Hand-impressing, book-flexure, 62. Roller mechanism. <p>Expressing—
Articles and attachments—</p> <ol style="list-style-type: none"> 50. Boxes and frames, 51. Cake-formers, 52. Cake-strippers, 53. Cake-trimmers, 54. Mats, 35. Belt, 36. Belt and plunger, 37. Belt and roller, 38. Disk, Plunger— 39. Cam, 40. Crank and pitman, 41. Lever, 42. Rack-bar and pinion, 43. Ratchet and grapple bar, 44. Screw, 45. Toggle-joint, 46. Windlass, 47. Roller, 48. Screw, 49. Without operating mechanism. <p>Packing—</p> <ol style="list-style-type: none"> 59. Articles, 55. Cheese, 56. Continuous-compression, 57. Single-compression, 58. Silos. |
|---|--|

CLASS 186.—STORE-SERVICE. (H.)

Subclasses.

- | | |
|---|---|
| <ol style="list-style-type: none"> 3. Buffers. 4. Carriers— 13. Pneumatic, 5. Wheeled. 15. Curved ways. 6. Elevators and drops. | <ol style="list-style-type: none"> 1. Gravity. 2. Propulsion— 11. Cable, 14. Pneumatic, 12. Spreaders. 7. Switches. |
|---|---|

CLASS 131.—TOBACCO. (H.)

Subclasses.

- | | |
|--|---|
| <ol style="list-style-type: none"> 37. Cigar and cigarette cutters. 18. Cigar-bundling. 38. Cigar-cutters, tip. 5. Cigar-machines— 39. Adjuncts, 40. Apron— 41. Moving rolling-table, 42. Stationary rolling-table, 43. Endwise-moving filler, 44. One traveling apron, 45. Roller, 46. Two traveling aprons. 47. Cigar-machine aprons. 48. Cigar-makers' implements— 49. Wrapper-cutters. 20. Cigar-perforators. 51. Cigar supports and stands. 52. Cigars, cigarettes, and cartridges. 6. Curing. 55. Dressing, casing, and flavoring. | <ol style="list-style-type: none"> 7. Granulating. 60. Leaf-treating— 56. Booking, 58. Stem-crushing, 57. Stemming. 30. Moistening. 9. Molding cigars. 10. Mouthpieces. 11. Packing. 13. Pipe-cleaners. 12. Pipes and stems. 14. Plug-making. 15. Plugs. 31. Smoking-tobacco. 22. Smoking-tubes. 16. Snuff manufacture. Tobacco-cutters— 33. Pivoted-knife, 34. Reciprocating-knife, 35. Rotating-knife. 21. Tobacco-hangers. 59. Tobacco-users' appliances. 36. Wrappers. |
|--|---|

DIVISION III.

EXAMINER RICH.

CLASSES.—148, Annealing and Tempering; 96, Coating with Metal; 204, Electrochemistry; 22, Metal-Founding; 75, Metallurgy; 207, Shaping Fluid Metal.

CLASS 148.—ANNEALING AND TEMPERING. (III.)

Subclasses.

- | | |
|-------------------------------------|----------------------------------|
| 13. Annealing apparatus— | Cementation and case-hardening— |
| 14. Boxes and pots, | 26. Gaseous, |
| 15. Clamps, | 27. Liquid. |
| 16. Muffles, | 8. Decarbonizing. |
| 17. Ovens— | 34. Hardening apparatus— |
| 18. Rotary hearths, | 35. Bands and wire, |
| 19. Pits, | 36. Clamps. |
| 20. Wire and springs. | 37. Hardening processes— |
| 21. Annealing processes— | 39. Molten metal, |
| 22. Drawing temper, | 38. Solutions. |
| 23. Gas, | Tempering and annealing— |
| 24. Toughening. | 10. Applications of electricity. |
| 40. Cementation and case-hardening— | 12. Metals other than iron. |
| 25. Compounds, | |

CLASS 96.—COATING WITH METAL. (III.)

Subclasses.

- | | |
|----------------------------|---------------------------|
| 1. Apparatus— | Precipitating— |
| 2. Continuous-feed, | 6. On metals, |
| 3. Dipping. | 7. On non-metals. |
| 9. Iron oxids. | 8. Processes. |
| 11. Pickling and swilling. | 10. Wiping and finishing. |
| 5. Pots. | |

CLASS 204.—ELECTROCHEMISTRY. (III.)

Subclasses.

- | | |
|---------------------------------|---|
| Batteries— | Electrolysis— |
| 49. Anodes, | Aqueous bath— |
| 50. Cathodes, | 8. Metallizing, |
| 52. Connectors, | 9. Chemicals— |
| 51. Diaphragms, | 58. Alkalies and chlorin, |
| 53. Vessels and supply devices, | 59. Bleaching and disinfecting liquors, |
| 54. Carbon, | 60. Chlorates, |
| 47. Earth, | 61. Dyes and pigments, |
| 48. Gas, | 10. Copper, |
| 46. Piles, | 11. Depolarizing and bur-
nishing, |
| 33. One-fluid— | 12. Gold, |
| 55. Iron, | 13. Multiple, |
| 34. Zinc— | 14. Nickel, |
| 39. Chlorids, | 15. Ores, |
| 37. Chromates, | 57. Refining metals, |
| 35. Nitrates, | 16. Silver, |
| 38. Oxids, | 17. Tin, |
| 36. Sulfates, | 18. Zinc, |
| 40. Two-fluid— | 28. Diaphragms, |
| 56. Iron, | 19. Fused bath— |
| 41. Zinc— | 20. Aluminium, |
| 45. Chromates, | 21. Sodium, |
| 42. Nitrates, | 24. Purifying liquids— |
| 43. Sulfates— | 26. Alcohol, |
| 44. Gravity, | 25. Water. |
| 29. Secondary. | 63. Reduction. |
| 64. Electric furnaces. | 31. Synthesis— |
| Electrolysis— | 62. Carbid. |
| 1. Aqueous bath— | 32. Ozone. |
| 2. Alloys, | 27. Tanning. |
| 3. Aluminium, | |
| 4. Anodes, | |
| 5. Apparatus, | |
| 6. Cathodes— | |
| 7. Cleaning, | |

CLASS 22.—METAL-FOUNDING. (III.)

(For definitions see Bulletin No. 14, p. 4.)

Subclasses.

- | | |
|---|--|
| 57. Casting apparatus— | 9. Molding apparatus— |
| 65. Centrifugal, | 31. Assembling mold parts, |
| 58. Composite castings and joints— | 35. Charging-flask— |
| 59. Fence and net leading, | 36. Under pressure, |
| 60. Ingots, | 10. Core-making— |
| 67. Compression— | 13. Core-boxes, |
| 68. Charging under pressure— | 11. Die-expressing, |
| 70. Melting-pot and pump— | 12. Rotating core-bar, |
| 71. Heated, | 37. Core-setting, |
| 69. Pneumatic, | 15. Curved molds, |
| 72. Pneumatic, | 47. Drawing pattern— |
| 79. Metal holding and pouring— | 48. Mold-lifting— |
| 81. Ladles— | 49. Reciprocating pat-
tern, |
| 84. Bottom-pour— | 50. Stripping— |
| 85. Internal-stopper, | 51. Compound strip-
ping-plate, |
| 82. Carriers and manipulators, | 53. Curvilinear draw, |
| 86. Hand, | 55. Lever and link, |
| 83. Skimming, | 52. Parallel motion, |
| 80. Pot-charging, | 54. Stool, |
| 74. Mold-heaters, | 56. Vibrating, |
| 75. Moving-mold— | 32. Inverting flask— |
| 76. Endless-chain, | 33. Rock-over, |
| 78. Reciprocating, | 25. Packing and drawing— |
| 77. Rotating-table, | 29. Jarring-mold and
stripping, |
| 61. Pigs— | 26. Mold moving against
press-head, |
| 62. Endless-chain, | 27. Parting surface com-
pression— |
| 63. Rotating-table, | 28. Stripping, |
| 64. Plants, | 30. Pressing and vibrating
pattern, |
| 66. Tandem, | 40. Packing sand— |
| 73. Vacuum. | 45. Jarring, |
| 94. Casting-ejectors— | 41. Multiple rammer, |
| 95. Ingot-strippers. | 42. Presses— |
| 174. Chills— | 43. Swinging press-
head— |
| 178. Circular— | 44. Reciprocating-
mold, |
| 182. Contracting, | 46. Press-heads and plun-
gers, |
| 179. Gear-teeth, | 16. Pipes vertical— |
| 181. Non-chilling rings, | 17. Compacting pattern— |
| 180. Rolls, | 18. Rotating— |
| 177. Heated or cooled, | 19. Bead-forming, |
| 175. Flow— | 20. Plants, |
| 176. Vents | 34. Removing mold, |
| 183. Vents. | 22. Rolling-pattern, |
| 184. Core chaplets and sup-
ports. | 21. Rotating-table, |
| 165. Cores— | 14. Screw-threads, |
| 167. Chill or insert holding, | 23. Segmental-pattern, |
| 172. Core-bars— | 38. Sprue-molding, |
| 173. Collapsible, | 24. Sweeping or cutting, |
| 168. Metal— | 39. Venting. |
| 170. Contracting, | 185. Molding-tools— |
| 169. S-trap, | 186. Pattern-lifters and draw-
plates, |
| 166. Pipe, | 187. Rammers. |
| 171. Vents. | 112. Mold jackets and weights. |
| 96. Flasks— | 89. Mold-material-treating ap-
paratus. |
| 103. Chill-holding— | 113. Molds— |
| 104. Wheel, | 116. Composite castings and
joints— |
| 109. Clamping, | 121. Ingots, |
| 97. Dental-plate, | 123. Lining articles, |
| 100. Extensible, | 122. Non-metallic inserts, |
| 108. Gate-extension, | 117. Pipe-joints— |
| 110. Guides, | 119. Expanding clamps, |
| 99. Multipart, | 118. External bands, |
| 101. Pattern, core, or insert
holding— | 124. Sand molds— |
| 102. Sash-weight, | 125. Insert-clamps, |
| 111. Sand-retaining devices, | 120. Wheels, |
| 106. Separable sides or ends— | 114. Finger-ring, |
| 107. Snap-flasks, | 136. Metal— |
| 105. Swinging-cope, | 137. Chains, |
| 98. Vertical-pipe. | 156. Clamping, |
| 218. Ingots— | 154. Ejecting, |
| 219. Composite. | 139. Ingots and pigs— |
| 1. Miscellaneous. | 141. Bottom-pour, |
| 87. Mold and core drying ap-
paratus. | 144. Double-walled, |
| 188. Mold and core materials— | 140. Hollow, |
| 189. Coatings and linings | 143. Horizontal, |
| 90. Mold and flask supports— | |
| 91. Tilting. | |
| 88. Mold coating and lining ap-
paratus. | |

DIVISION III.—CONTINUED.

CLASS 22.—Continued.

- | | |
|----------------------------------|------------------------------|
| Molds— | 190. Processes— |
| Metal— | 200. Casting— |
| Ingots and pigs— | 211. Annealing in mold, |
| 142. Multiple, | 201. Composite article— |
| 145. Separable sides— | 203. One metal solid— |
| 146. Clamped, | 204. Heated— |
| 147. Sink-heads and feed- | 205. By original heat |
| ers, | of casting, |
| 148. Stoppers, | 206. Iron and steel— |
| 149. Multiple, | 207. Compression, |
| 155. Runner, | 202. Partly non-metallic, |
| 151. Separable cores— | 212. Cooling— |
| 152. Single, | 213. Chilling iron, |
| 150. Sprue-separating, | 209. Introducing metal— |
| 153. Two-part, | 210. By immersion, |
| 138. Wheels, | 216. Preventing piping by |
| 129. Sand— | manipulation, |
| 130. Multiple, | 208. Tandem, |
| 134. Sprue, gate, runner, | 214. Treating with gases, |
| and riser, | 215. Treating with solids, |
| 135. Vents, | 193. Molding— |
| 131. With cores— | 194. Core-making, |
| 132. Circumferential, | 196. Descroing pattern, |
| 133. Vertical, | 197. Green-sand— |
| 126. Sand and metal— | 199. Drawing pattern, |
| 127. Circular chills— | 198. Mold and core, |
| 128. Wheel, | 195. Pattern-making, |
| 115. Split castings. | 191. Pattern-plate and match |
| 92. Mold-separating devices— | making, |
| 93. Drawing core. | 217. Preparation of mold ma- |
| 157. Pattern and match plates. | terials, |
| 158. Patterns— | 192. Treating mold. |
| 163.5. Coatings, | 2. Stereotype-casting appa- |
| 164. Composition and com- | ratus— |
| posite, | 3. Combined machines, |
| 161. Core-forming, | 4. Heating or cooling mold, |
| 160. Insert, core, or chill sup- | 5. Molds. |
| porting, | 6. Type-casting apparatus— |
| 159. Pipe, | 7. Combined machines, |
| 162. Sprue, gate, and runner, | 8. Molds. |
| 163. Undercutting. | |

CLASS 75.—METALLURGY. (III.)

Subclasses.

- | | |
|------------------------------|------------------------------|
| 1. Alloys. | Hot-blast ovens— |
| 2. Assaying. | 53. Double-surface, |
| 90. Blowpipes. | 52. Single-surface. |
| 3. Converters— | 124. Hot-blast valves. |
| 148. Fixed, | 14. Iron and steel direct— |
| 149. Furnace, | 71. Apparatus, |
| 188. Plants, | 73. Bricks, |
| 150. Runway, | 74. Flux, |
| 151. Sectional, | 75. Gases, |
| 152. Twyers and bottoms. | 72. Retorts and hearths, |
| 182. Crucibles. | 76. Slag, |
| 107. Cupolas— | 77. Sponge. |
| 108. Drop-bottoms, | 15. Lead. |
| 109. Forehearth, | 127. Mechanical puddlers— |
| 110. Water-jackets, | 128. Rotary hearths, |
| 111. Wind-chests and twyers. | 129. Tools. |
| 112. Finery-fires. | 130. Puddling-hearth— |
| 113. Fire-brick. | 131. Chills and bottoms, |
| 187. Fluxes. | 132. Doors and bits. |
| 30. Fume-arresters. | 22. Quicksilver. |
| Furnaces— | 17. Reducing and separating— |
| 40. Blank— | 58. Aluminium, |
| 189. Soaking-pits— | 57. Apparatus, |
| 190. Covers, | 62. Copper, |
| 191. Heated, | 59. Desilverizing lead, |
| 184. Tire, | 60. Desulfurizing ores, |
| 5. Blast— | 61. Disintegrating ores, |
| 114. Charging devices— | 63. Flux, |
| Bell and hopper, | 64. Gold and silver, |
| 116. Protecting walls, | 85. Manganese, |
| 97. Twyers, | 66. Nickel and cobalt, |
| 186. Crucible, | 65. Ore bricks, |
| 180. Forge— | 183. Sodium. |
| 181. Twyers, | Regenerators— |
| 84. Melting— | 95. Double-surface, |
| 119. Open-hearth, | 94. Single-surface. |
| 19. Pigment, | Roasters— |
| Reverberatory— | 133. Blasting, |
| 121. Heating air, | 134. Hearths— |
| 122. Necks and chimneys, | 135. Rotary, |
| 123. Water-walls and roofs, | 136. Kilns, |
| 196. Shields, | 137. Muffles, |
| Tapping devices— | Revolving— |
| 192. Iron or slag notches | 138. Cylinders, |
| and spouts, | 139. Retorts, |
| 193. Pluggers and tapping- | 140. Shaft-and-shelf, |
| bars, | Stirrers— |
| 194. Runways, | 141. Endless-chain, |
| 195. Siphons and dippers. | 142. Reciprocating, |

CLASS 75.—Continued.

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|-------------------------------|---------------------------|
| Roasters— | 28. Spelter— |
| Stirrers— | 153. Processes, |
| 143. Rotary, | 154. Retorts, |
| 144. Screw. | 155. Stacks. |
| 25. Roasting and smelting | 27. Treating molten iron— |
| hearth. | 44. Air, steam, or gases, |
| 145. Slag— | 45. Alloys, |
| 146. Disintegrating, | 46. Basic, |
| 91. Heaters, | 87. Basic linings, |
| 147. Separators, centrifugal. | 47. Granulating, |
| 18. Solution and precipita- | 48. Oxids, |
| tion— | 49. Physic, |
| 86. Apparatus, | 50. Scrap, |
| 67. Chlorination, | 51. Vacuum. |
| 185. Cyanids, | 55. Utilizing tin-scrap— |
| 69. Ferric salts, | 56. Wet processes. |
| 70. Parting bullion. | |

CLASS 207.—SHAPING FLUID METAL. (III.)

Subclasses.

- | | |
|---------------------|-----------------------|
| 8. Granulating. | Shaping, by dies— |
| 1. Shaping. | 3. Tubes— |
| Shaping, by dies— | 4. Compound, |
| 2. Bars and plates. | 5. Curved. |
| 6. Covering wire, | 7. Shaping, by rolls. |

DIVISION IV.

EXAMINER POND.

CLASSES.—14, Bridges; 193, Conveyers; 212, Cranes and Derricks; 37, Excavating; 57, Hoisting; 61, Hydraulic Engineering; 214, Loading and Unloading; 189, Metallic Building Structures.

CLASS 14.—BRIDGES. (IV.)

(For definitions see Bulletin No. 19, p. 16.)

Subclasses.

- | | |
|-------------------------------|---------------------------------------|
| 24. Arch— | Draw— |
| 26. Abutments and anchorages, | 43. Horizontally-sliding— |
| 25. Compound. | 44. Boat-operated, |
| Combination— | 45. Lazy-tongs, |
| 2. Truss and arch. | 42. Lift. |
| 74. Coverings. | 46. Locking devices, |
| 31. Draw— | 49. Signals, |
| 47. Aprons, | 32. Swing— |
| Bascule— | 34. Boat-operated, |
| Fixed-pivot— | 35. End supports and locking devices, |
| 37. Hinged sections, | 33. Hand or motor operated. |
| 38. Rack-and-pinion, | 27. Floating— |
| 41. Locking devices, | 28. Adjustable height, |
| 39. Non-pivoted— | 29. Draw— |
| 40. Rack-and-pinion, | 30. Locking. |
| 48. Buffers, | 73. Floors. |
| 50. Gates— | Gangways— |
| Bridge-operated— | 70. Endless conveyer, |
| Displacement— | 71. One end attached, |
| 54. Horizontally - sliding— | 72. Unattached. |
| Locking, | 17. Girder. |
| 56. Horizontally-swinging— | 1. Miscellaneous. |
| Locking, | 75. Piers— |
| 57. Vertically-sliding— | 76. Fenders, |
| Locking, | 77. Processes. |
| 58. Vertically - swinging— | 18. Suspension— |
| Locking, | 22. Cables and cable-clamps, |
| 60. Vertically - swinging— | 19. Compound system, |
| Locking, | 23. Constructive apparatus, |
| 61. Shaft-rotation— | 20. Simple system, |
| Horizontally - sliding— | 21. Towers and anchors. |
| Locking, | 3. Truss— |
| 63. Horizontally-swinging— | 4. Arrangement— |
| Locking, | 5. Adjustable, |
| 65. Vertically-sliding— | 12. Both chords curved, |
| Locking, | 9. Bowstring— |
| 66. Vertically - swinging— | 10. Adjustable, |
| Locking, | 7. Cantaliver— |
| 68. Vertically - swinging— | 8. Suspension, |
| Locking, | 6. Deck, |
| 69. Hand or motor operated— | 11. Intermediate catenary, |
| Horizontally - swinging— | Details— |
| Locking, | 14. Connections, |
| 51. Vertically-sliding, | 15. End shoes, |
| Vertically-swinging, | 16. Expansion devices, |
| | 13. Structure. |

CLASS 193.—CONVEYERS. (IV.)

Subclasses.

- | | |
|-----------------------------------|--|
| 1. Conveyers. | 11. Reciprocating. |
| 2. Endless— | 12. Retransfer and weighing. |
| 3. Adjustable leg, | 13. Screw. |
| 4. Belt— | 22. Spouts. |
| 24. Feeders, | 20. Storehouse. |
| 23. Guides, | 14. Thresher attachments— |
| 25. Trippers, | 15. Foldable, |
| 5. Boot, | 16. Laterally and vertically adjustable, |
| 6. Bucket, | 17. Oscillatory, |
| 7. Bucket, with traction-rollers, | 18. Vertically-adjustable. |
| 8. Flight, | 19. Trimmers. |
| 9. Hook. | |
| 10. Pneumatic— | |
| 21. Stackers. | |

CLASS 212.—CRANES AND DERRICKS. (IV.)

Subclasses.

- | | |
|--|--|
| 1. Cranes and derricks. | 9. Rotary load-support— |
| 2. Rectilinearly-movable load-support— | 10. Vertically-adjustable jib, |
| 3. Electric. | 11. Motor-operated— |
| 4. Hydraulic, | 12. Vertically-adjustable jib. |
| 8. Load-lifting devices, | 13. Rotary rectilinearly-movable load-support. |
| 5. Longitudinal-shaft driver, | 14. Stationary load-support— |
| 6. Stationary motor, | 15. Jib. |
| 7. Traveling motor. | |

CLASS 37.—EXCAVATING. (IV.)

Subclasses.

- | | |
|--------------------------------|----------------------------|
| 11. Diggers. | Excavators— |
| Dredgers— | 17. Wheel— |
| 18. Anchoring, | 28. And belt, |
| 14. Clamshell— | 29. And carrier. |
| 30. Buckets, | 50. Machine-picks. |
| 13. Scouring— | 61. Mining systems. |
| 36. Hydraulic. | 39. Miscellaneous. |
| Excavators— | 43. Road beds and grades. |
| 24. Chain and bucket— | 40. Scoops— |
| 23. Buckets, | 41. Railway side. |
| 16. Dipper, | 5. Scrapers— |
| 9. Hydraulic— | 19. Distant-power, |
| 46. Pipe-supports, | 22. Railway side, |
| 47. Rotary head, | 42. Slodded, |
| 44. Steam vacuum, | 7. Wheeled— |
| 45. Suction-pipe mouth-pieces, | 49. Annular blade-carrier. |
| 25. Plow and carrier— | 5. Self-loading carts— |
| 48. Side-delivery plow, | 32. Carrier, |
| 10. Rammers, | 33. Scoop, |
| 26. Screw— | 34. Wheel. |
| 27. And carrier, | 35. Snow-road machines. |
| | 20. Treating quicksands. |

CLASS 57.—HOISTING. (IV.)

Subclasses.

- | | |
|------------------------------|---|
| 107. Bale and box hooks. | 126. Lewises. |
| 2. Barrel-rollers. | Lifters— |
| 120. Belt-stretchers— | 109. Barrel and box, |
| 121. Rack-bar and pinion, | 110. Picture, |
| 122. Ratchet-bar and lever, | 111. Spittoon, |
| 123. Screw, | 112. Spool, |
| 124. Windlass. | 113. Store-goods. |
| 34. Block and tackle— | 15. Lifting-jacks— |
| 5. Differential pulleys. | 97. Bar and cam-lever, |
| 22. Capstans and windlasses— | 118. Heads, |
| 82. Capstans, | 43. Lever, |
| 83. Drum and clutch, | 98. Lever, bar, and clutch-loop, |
| 84. Hand-crank operated, | 99. Lever, bar, and double-acting pawls, |
| 85. Lever-operated, | 100. Lever, bar, and pawl, |
| 86. Steam-winch, | 101. Lever and lifting-bar, |
| 87. Sweep-operated, | 125. Pushers, |
| 88. Wildcats, | 102. Rack-and-pinion, |
| 89. Windlass with capstan. | 119. Rim-engaging devices, |
| 37. Chutes— | 44. Screw. |
| 114. Counterweighted, | 116. Raising and lowering, automatic check and release. |
| 115. Equalizers. | 18. Skids. |
| 117. Floor-jacks. | 53. Stackers. |
| 9. Grapples. | 19. Stump-extractors— |
| Hay-forks— | 103. Drum, |
| 39. Corkscrew, | 104. Lever, |
| 40. Grapple, | 105. Lever-and-drum, |
| 41. Harpoon, | 106. Screw. |
| 42. Tilting. | 79. Wagon-raisers. |
| 11. Hay-slings. | |
| 13. Hoisting-buckets. | |
| 127. Hoisting-hooks— | |
| 128. Releasing. | |

DIVISION IV.—CONTINUED.

CLASS 61.—HYDRAULIC ENGINEERING. (iv.)

Subclasses.

- | | |
|----------------------------|-------------------------|
| 1. Aqueducts. | 29. Jetties, sectional. |
| 19. Breakwaters. | 11. Marine ways. |
| 2. Cable-laying. | 13. Pile-drivers— |
| 3. Caissons— | 37. Jigs. |
| 20. Ship. | 38. Monkey, |
| 4. Canals— | 39. Piston, |
| 28. Gate-valves, | 41. Sinking, |
| 21. Lock-gates— | 40. Swinging-hammer. |
| 27. Bear-trap. | Piles— |
| 5. Chutes— | 42. Metallic, |
| 33. Screens, | 43. Protected, |
| 34. Water-power. | 52. Sheet-piling. |
| 23. Cribbing. | 30. Protecting shores. |
| 24. Dams and levees— | Tide-powers— |
| 35. Cores, | 49. Accumulators, |
| 36. Mattresses. | 51. Non-pivoted float, |
| Dams— | 50. Pivoted float. |
| 22. Coffers, | 16. Tunnels— |
| 25. Sectional. | 44. Excavators, |
| 7. Diving-armor. | 45. Shields. |
| 8. Docks— | 46. Water-gates— |
| 48. Lifting. | 47. Sliding. |
| 9. Drains. | 47. Swinging. |
| 26. Forming and preserving | 31. Wharves— |
| channels. | 56. Gates. |
| 32. Harbors— | |
| 54. Fortifications and de- | |
| fenses— | |
| 55. Turrets. | |

CLASS 189.—METALLIC BUILDING STRUCTURES. (iv.)

(For definitions see Bulletin No. 21, p. 9.)

Subclasses.

- | | |
|-----------------------------|------------------------------|
| 1. Buildings— | 11. Portable towers. |
| 3. Bins, | 54. Shutters— |
| 4. Greenhouses, | 55. Awnings, |
| 5. Jails— | 59. Horizontally-sliding, |
| Doors— | 61. Registering-slide, |
| 7. Bolt-work— | 56. Roll— |
| 8. With indicators, | 57. Operating devices, |
| 9. Gratings— | 58. Thermal control, |
| Connections, | Slate— |
| 6. Rotary, | 63. Fixed, |
| 2. Portable, | 62. Pivoted, |
| 38. Columns— | 60. Vertically-sliding. |
| 42. Caps and bases, | 12. Skeleton towers— |
| 39. Compound, | 13. Arrangement— |
| 41. Shapes, | 16. Derricks, |
| 40. Wood and metal. | 14. Elevating, |
| Doors— | 17. Tanks, |
| 53. Panels, | 15. Tilting, |
| 51. Sectional, | 18. Windmills, |
| 52. Theater-curtains, | Details— |
| Thermal control— | 20. Brace adjustments, |
| 47. Horizontally-sliding, | 21. Caps and bases, |
| 49. Horizontally-swinging, | 19. Structure. |
| 48. Vertically-sliding, | 43. Stairs— |
| 50. Vertically-swinging. | 44. Spiral. |
| 22. Electric-wire supports— | 34. Structural units— |
| 23. Telegraph-poles— | 35. Clips or fasteners, |
| Bases— | 36. Joints and connections. |
| 29. Anchored— | 45. Thermally-controlled de- |
| 30. Augers, | vices. |
| 31. Expanding, | 64. Windows— |
| 24. Compound, | 66. Double-movement— |
| 33. Cross-arms, | 67. Sliding-pivot, |
| 27. Insulated parts, | 68. Swinging-frame, |
| 25. Multiple supports, | 75. Frames, |
| 32. Protectors, | 79. Guards, |
| 26. Sectional. | 76. Sash— |
| 80. Fire-shields— | 77. Pane supports and fas- |
| 81. Collapsible. | tenings— |
| 37. Girders. | 78. Removable, |
| Grilles— | 69. Swinging-sash— |
| 82. Composite, | 70. Laterally-sliding weath- |
| 83. Integral, | er-strips, |
| 84. Securing devices. | 71. Thermal control, |
| 90. Land-anchors— | 72. Vertically-sliding sash— |
| 91. Augers, | 73. Movable or removable |
| 92. Expanding. | guards, |
| 85. Metal sheathing— | 74. Thermal control, |
| 86. Overlapping ends— | 65. Weatherproofing. |
| 87. Cornice, | |
| 88. Securing devices— | |
| 89. Cornice. | |

CLASS 214.—LOADING AND UNLOADING. (iv.)

Subclasses.

- | | |
|-----------------------------|------------------------------|
| 14. Elevated carriers— | Loading and unloading— |
| 15. Draft-sustaining, | 5. Load-binders, |
| 22. Fall-rope carriers, | 6. Pilers, |
| 16. Lever-lock, | 7. Raised track, |
| 17. Non-lowering support, | 8. Raised track, track-end |
| 18. Ratchet-lock, | dump, |
| 19. Rope-catch, | 9. Raised track, track-end |
| 20. Sheave-frame catch. | dump, tilting track-sec- |
| 1. Loading and unloading— | tion, |
| 23. Furnace-charging, | 13. Scoop, hoist, carry, and |
| 2. Hay, | dump, |
| 3. Hoist and dump, | 10. Shoveling devices, |
| 4. Hoist, raised track, and | 11. Tilting platform, |
| dump, | 12. Vertical hoist and dump. |

DIVISION V.

EXAMINER LANE.

CLASSES.—11, Bookbinding; 56, Harvesters; 63, Jewelry; 84, Music.

CLASS 11.—BOOKBINDING. (v.)

Subclasses.

- | | |
|-----------------------------------|---------------------------------|
| 13. Bank-notes, checks, and bonds | 18. Covers— |
| 16. Binding. | 35. Removable. |
| 2. Binding-machines— | 7. Indexing— |
| 33. Pamphlet-coverers, | 27. Cutting and printing. |
| 24. Rounding and backing. | 19. Leaves. |
| 25. Signature-gatherers. | 20. Leaves and covers. |
| 17. Books and binding. | 14. Postage and revenue stamps. |
| 3. Books and covers— | 15. Tickets. |
| 26. Cutting attachments. | 11. Writing-tablets— |
| 4. Book-cover protectors. | 22. Continuous— |
| 12. Book-leaf holders and marks. | 36. Manfolding, |
| | 23. Manfolding. |

CLASS 56.—HARVESTERS. (v.)

Subclasses.

- | | |
|---------------------------------------|--|
| 1. Bean-harvesters. | Hay-loaders— |
| 35. Binders— | 62. Intermittent, |
| 36. Compressors, | 63. Lifting-reels, |
| 37. Grain-adjusters, | 64. Walking-rakes. |
| 120. Sheaf-carriers— | 100. Headers. |
| Shock-formers— | 17. Hedge-trimmers. |
| Automatic— | 16. Hedge-trimmers. |
| 121. Self-binding, | 17. Hemp and flax harvesters. |
| 122. Hand. | 65. Horse-rakes— |
| 134. Broom-corn harvesters— | 66. Draft-dumpers, |
| 135. Tablers. | 68. Drags. |
| 128. Bunchers and windrowers. | 67. Hand-dumpers, |
| Cane-harvesters— | 69. Hay-cockers, |
| Stalk-cutters— | 69. Rake-teeth, |
| 133. Strippers, | 115. Side-delivery. |
| 132. Toppers, | 19. Lawn-mowers— |
| 2. Clover-harvesters. | 114. Grass-catchers. |
| 3. Combined rakes and tedders. | 20. Manure-forks. |
| Corn-harvesters— | 33. Miscellaneous. |
| 130. Cutting apparatus, | 70. Mowers— |
| 119. Self-binders, | 72. Anomalies, |
| 103. Stalk-cutters— | 72. Center-cut, |
| Droppers— | 136. Cutter-bar alignment, |
| 104. Crane, | 73. Front-cut, one-wheel, |
| 105. Direct-tilting, | 74. Front-cut, two wheels, |
| 106. Ejector, | 76. Rear-cut, one-wheel, |
| 107. Endless-apron, | 77. Rear-cut, two wheels, |
| 108. Horizontally moving and tilting, | 75. Reciprocating-gear, |
| 109. Sliding-bottom, | 78. Thrust-cut. |
| 110. Strippers— | 32. Platform adjustments. |
| 111. Comb, | 22. Reels. |
| 112. Knife, | 80. Revolving horse-rakes— |
| 113. Roller, | 80. Flop-over, |
| 131. Toppers. | 81. Wheel. |
| 5. Corn-shockers. | 27. Scythes and cradles. |
| 6. Cotton-harvesters— | 24. Seats. |
| 117. Pneumatic, | 124. Self-binders— |
| 118. Rotating picker-stems. | 126. Binders only— |
| Cutting apparatus— | 127. Cord-knotting. |
| 42. Endless, | 82. Clips and prepared bands, |
| 129. Grain-lifters, | 83. Cord-knotters, |
| 43. Guard-fingers and finger-bars. | 125. Cord-knotting, |
| 44. Reciprocating, | 85. Gleaners and binders. |
| 45. Rotary, | 86. Tension and take-up devices. |
| 46. Vibrating. | 87. Twisters and tuckers, |
| Droppers— | 88. Wire-twisters. |
| 47. Direct-tilting, | Self-rakers— |
| 49. Miscellaneous, | 87. Endless carriers, |
| 50. Side-delivery, | 90. Gaveling-tongs, |
| 51. Swinging and tilting. | 91. Platform-movement. |
| 99. Fruit-gatherers. | 92. Reciprocating, horizontal curvilinear, |
| 9. Gearing. | 93. Reciprocating, horizontal rectilinear, |
| 31. Grain wheels and casters. | 96. Rotary, horizontal axis, |
| Hand-binders— | 94. Rotary, vertical axis, switch, |
| 52. Attachments, | 95. Rotary, vertical axis, no switch, |
| 53. Elevated delivery, rear, | 98. Traveling, horizontal irregular path, |
| 54. Elevated delivery, side, | 97. Traveling, vertical irregular path. |
| 55. Flat delivery, | 28. Tedders. |
| 56. Manual traction. | 30. Threshers. |
| 12. Hand-rakes. | 30. Truck clearers and dividers. |
| Hay-loaders— | |
| 61. Endless belts, | |

CLASS 63.—JEWELRY. (v.)

Subclasses.

- | | |
|---|-----------------------------|
| 1. Bracelets. | 7. Ornamental chains. |
| 2. Brooches. | 10. Processes. |
| 4. Ear-rings. | 13. Safety watch-guards. |
| 5. Finger-rings. | 12. Scarf-pins. |
| 8. Gem-setting. | 9. Watch-chain attachments. |
| 6. Lockets. | |
| 11. Metal stock and ornamental wire fabric. | |

CLASS 84.—MUSIC. (v.)

Subclasses.

- | | |
|-----------------------------|--------------------------------|
| 1. Accordions. | Automatic instruments— |
| 82. Autoharps. | Stringed— |
| Automatic instruments— | 215. Cylinder, |
| Details— | 216. Disk, |
| Cases, | 217. Electric— |
| 159. Expression devices, | 218. Cylinder-control, |
| 160. Selectors— | 219. Mechanical— |
| 161. Note-sheets— | 220. With controller— |
| 162. Projections, | 221. Cylinder, |
| 163. Note-sheet rolls, | 222. Pneumatic, |
| 164. Trackers, | 223. Pneumatic— |
| 165. Winding and rewinding, | 224. Cylinder-control, |
| 166. Wind devices— | 225. Self-setting, |
| 167. Expression, | 226. Pianos— |
| 168. Pedals, | 227. Cylinder, |
| 169. General structure— | 228. Electric, |
| Cylinder, | 229. Electropneumatic, |
| 170. Disk— | 230. Mechanical— |
| 171. Self-setting, | 231. With controller— |
| 172. Electric, | 232. Electric, |
| 173. Mechanical— | 233. Pneumatic, |
| 174. With controller— | 234. Pneumatic— |
| 175. Electric, | 235. Cylinder-control, |
| 176. Pneumatic, | 236. Self-setting, |
| 177. Pneumatic— | 237. Wind— |
| 178. Cylinder-control, | 238. Cylinder, |
| 179. Self-setting, | 239. Disk, |
| 180. Keyboard-players— | 240. Mechanical— |
| Cases, coupling, | 241. Pneumatic control, |
| 181. Cylinder, | 242. Organs— |
| 182. Disk, | 243. Cylinder, |
| 183. Electric, | 244. Disk, |
| 184. Mechanical— | 245. Electropneumatic, |
| 185. Disk-control, | 246. Mechanical— |
| 186. Electric control— | 247. With controller— |
| 187. Cylinder, | 248. Pneumatic, |
| 188. Pneumatic control, | 249. Organettes— |
| 189. Pneumatic— | 250. Cylinder, |
| 190. Cylinder-control, | 251. Disk. |
| 191. Orchestrions— | 53. Auxiliary strings. |
| 192. Disk-control, | 120. Banjo-bridges. |
| 193. Electropneumatic, | 121. Banjos— |
| 194. Mechanical— | 122. Mutes, |
| 195. Cylinder-control, | 123. Necks, |
| Pneumatic control, | 124. Resonators. |
| 200. Percussion— | 6. Castanets. |
| Cylinder, | 85. Charts. |
| 201. Disk, | 86. Harmony and transposition. |
| 202. Electric— | 7. Clarinets and flutes. |
| 203. Disk-control, | 55. Combined organ and piano. |
| Mechanical— | 125. Cornet-mutes. |
| Cylinder-control, | 8. Cornets and trumpets. |
| 204. Pneumatic control, | 9. Couplers— |
| 205. Pneumatic— | 126. Pneumatic. |
| 206. Cylinder-control, | 10. Drums— |
| 207. Spurs and picks— | 127. Snare. |
| 208. Cylinder, | 81. Electric actions— |
| 209. Disk— | 128. Couplers. |
| 210. Self-setting, | 131. Sostenuto. |
| 211. Mechanical— | 151. Enharmonic devices. |
| With controller— | 11. Exercising devices— |
| 212. Disk, | 91. Hand attachments, |
| 213. Pneumatic, | 92. Keyboard, |
| 214. | |

DIVISION V.—CONTINUED.

CLASS 84.—Continued.

Exercising devices—	Piano—
93. Keyboard attachments.	Actions—
94. Vocal.	102. Frames.
87. Finger-boards.	103. Hammers.
132. Guitar-bridges.	60. Pedal.
133. Guitars—	104. Plectrum.
134. Capo-tasto.	138. Agraffes.
13. Harmonicas—	27. Attachments.
88. Supports.	139. Bridges.
12. Harmonic attachments.	140. Capo-tasto bars.
56. Harmonic dampers—	52. Cases—
83. Violin.	118. Desks.
14. Harps.	119. Fall-boards.
48. Indicators—	141. Knockdown.
150. Keyboard attachments.	148. Lld-props.
15. Insulators.	149. Swells.
58. Key-holding devices.	28. Frames.
16. Keys and keyboards—	29. Legs.
96. Touch-regulators.	30. Sounding-boards.
49. Knee-swells.	40. Stringing.
17. Leaf-turners—	144. String-plates.
135. Spring and gravity.	67. Tuning-pins—
136. Mandolin-bridges.	105. Coupling-clamp.
137. Mandolins.	106. Direct-pull.
79. Mouthpieces.	107. Lever.
89. Musical blocks.	108. Presser-deflectors.
18. Notation.	109. Push-rod and carrier.
Organ.	110. Worm-gear.
19. Actions—	25. Pianos—
95. Electropneumatic.	142. Forte devices.
20. Pneumatic.	70. Sostenuto.
156. Valves and valve-seats.	143. Tone-modifiers.
50. Bellows.	31. Without strings.
21. Cases.	46. Piano-violins.
22. Pipes.	68. Recording attachments.
59. Stop-actions—	33. Reeds.
54. Combination.	34. Reed-boards.
23. Swells.	69. Solo attachments.
47. Wind-chests.	146. Tailpieces—
Organs.	147. Reel.
90. Pedal-bass.	41. Transposers.
32. Pipe.	42. Tremolos.
35. Reed—	43. Tuning instruments.
36. Attachments for.	Violin—
111. Folding.	72. Bows.
112. With pipes.	73. Bridges.
38. Steam.	74. Chin-rests.
24. Pedals.	75. Dampers and mutes.
97. Auxiliary.	76. Tuning-pegs.
98. Guards.	44. Violins.
99. Locks.	78. Practice.
61. Pianissimo devices.	115. Supports.
Piano.	80. Zithers—
26. Actions—	116. Keyed.
100. Dampers.	117. Picks.
101. Flanges.	

DIVISION VI.

EXAMINER SEAMAN.

CLASSES.—8, Bleaching and Dyeing; 23, Chemicals; 52, Explosives; 71, Fertilizers; 167, Medicines; 99, Preserving; 127, Sugar and Salt.

CLASS 8.—BLEACHING AND DYEING. (VI.)

Subclasses.

- | | |
|--------------------------------|--------------------------------------|
| 16. Apron vats and stretchers. | 19. Open vats. |
| 2. Bleaching. | 17. Perforated rolls and spray-jets. |
| 1. Carbon dyes. | 7. Press-dyeing. |
| 18. Close vats. | 8. Renovating dress. |
| 5. Dyeing processes. | 15. Steam and bleach chests. |
| 6. Dyes. | 12. Wool-cleaning. |
| 20. Mercerizing. | |
| 13. Mordants. | |

CLASS 23.—CHEMICALS. (VI.)

Subclasses.

- | | |
|--|------------------------|
| 1. Acids, mineral. | 11. Packing chemicals. |
| 21. Ammonia. | 13. Salines. |
| 3. Apparatus. | 22. Soda and potash. |
| 24. Carbon compounds. | 27. Vinegar. |
| 5. Fire-extinguishing compounds. | |
| 10. Metalloids, embraces non-illuminating gases, sulfur, and phosphorus. | |

CLASS 52.—EXPLOSIVES. (VI.)

Subclasses.

- | | |
|---------------------|---------------------------|
| 1. Blasting-powder. | 5. Matches. |
| 2. Fulminates. | 3. Nitro compounds. |
| 4. Gunpowder. | 6. Pyrotechnic compounds. |

CLASS 71.—FERTILIZERS. (VI.)

Subclasses.

- | | |
|------------------|---------------------------|
| 1. Apparatus. | 7. Phosphates. |
| 9. Compositions. | 8. Sewage and night-soil. |
| 6. Organic. | |

CLASS 167.—MEDICINES. (VI.)

Subclasses.

- | | |
|--------------------------|--------------------------|
| 2. Capsules. | 7. Internal remedies. |
| 3. Disinfectants— | 8. Plasters. |
| 12. Candles and holders. | 11. Tobacco substitutes. |
| 4. Extracts. | 9. Topical remedies. |
| 5. Hair dyes and tonics. | 10. Veterinary. |
| 6. Insecticides. | |

CLASS 99.—PRESERVING. (VI.)

Subclasses.

- | | |
|----------------------|----------------------|
| 1. Antiseptics. | 11. Food compounds. |
| 2. Apparatus. | 9. Fumigation. |
| 5. Desiccation. | 10. Panification. |
| 6. Egg-testers. | 12. Wood saturation. |
| 8. Exclusion of air. | |

CLASS 127.—SUGAR AND SALT. (VI.)

Subclasses.

- | | |
|--------------------------|----------------------------|
| 1. Bleaching cane-juice. | 10. Glucose. |
| 2. Bone-black. | 19. Graining and draining. |
| 3. Centrifugal machines— | 11. Mixers. |
| 21. Honey-extractors. | 12. Molds and carriages. |
| 20. Liquid-separators. | 14. Refining salt. |
| 22. Testers. | 15. Refining sugar. |
| 4. Confectionery. | 16. Salt-making. |
| 6. Cube sugar. | 23. Starch. |
| 7. Defecating. | 17. Sugar-making. |
| 8. Diffusion apparatus. | 18. Vacuum-pans. |
| 9. Evaporating-pans. | |

DIVISION VII.

EXAMINER TOWNSEND.

CLASSES.—46, Games and Toys; 185, Mechanical Motors; 88, Optics; 93, Paper Manufactures; 208, Velocipedes.

CLASS 46.—GAMES AND TOYS. (VII.)

Subclasses.

- | | |
|--------------------------------|--------------------------|
| 71. Amusement-houses. | 65. Game-pieces. |
| 4. Balls and bats. | 22. Hobby-horses. |
| 43. Base-ball. | 23. Kites. |
| 6. Billiard appliances— | 24. Lawn-tennis. |
| 7. Balls, | 25. Playing-cards. |
| 8. Chalk-cups, | 41. Puzzles and magic. |
| 9. Cues, | 27. Roundabouts. |
| 10. Cue-tip fasteners, | 53. Skaters' appliances. |
| 11. Cushions, | 50. Skates— |
| 12. Tables, | 51. Roller. |
| 13. Table-levelers. | 52. Skate-wheels. |
| 66. Bowling-alleys— | 30. Skipping-ropes. |
| 54. Pin-setting apparatus. | 67. Snow-shoes. |
| 14. Buzzes and whirligigs. | 31. Soap-bubble pipes. |
| 55. Card-game accessories. | 32. Spinning-tops. |
| 56. Chance devices— | 33. Stilts. |
| 57. Ball. | 70. Theater appliances. |
| 15. Croquet. | 35. Toy building-blocks. |
| 68. Dumb-bells and clubs. | 36. Toy money-boxes. |
| 58. Duplicate-whist apparatus. | 37. Toys— |
| 69. Exercising-machines. | 49. Electric. |
| Game apparatus— | 40. Figure— |
| 59. Aerial projectiles— | 45. Wheeled. |
| 60. Peg and pocket. | 46. Sounding— |
| 61. Surface projectiles— | 47. Wheeled. |
| 62. Longitudinal. | 48. Wheeled. |
| 21. Game-boards— | 38. Trundles and hoops. |
| 63. Chance-controlled. | |
| 64. Checkered surfaces. | |

CLASS 185.—MECHANICAL MOTORS. (VII.)

Subclasses.

- | | |
|--------------------|-------------------------|
| 1. Horse-powers— | Manual— |
| 8. Drivers, | 13. Miscellaneous, |
| 9. Drums, | 12. Treadles. |
| 2. Equalizers, | 5. Miscellaneous. |
| 10. Gears, | 14. Oscillating weight— |
| 3. Treads. | 15. Wave. |
| Manual— | 6. Spring. |
| 11. Hand-operated, | 7. Weight. |

CLASS 88.—OPTICS. (VII.)

(For definitions see Bulletin No. 5, p. 8.)

Subclasses.

- | | |
|--|-----------------------------------|
| 2. Astronomical and surveying instruments— | Kinetoscopes— |
| 9. Altitude— | 19. Separate leaves. |
| 11. Artificial horizons, | 57. Lenses. |
| 10. Sextants, | 56. Lens-testers. |
| 3. Distances— | 39. Microscopes— |
| 6. Double-observation— | 40. Accessories. |
| 7. External-base, | 1. Miscellaneous. |
| 4. Electric, | 20. Optometers— |
| 5. Remote-base, | 21. Face-gages. |
| 12. Leveling— | 22. Multiple-lens. |
| 13. Gradient, | 23. Photometers. |
| 8. Solar. | 24. Projecting apparatus— |
| Building-lights— | 25. Helioscopes. |
| 58. Canopy, | 26. Magic lanterns— |
| 59. Vault, | 27. Rotary slide carrier. |
| 60. Window. | 28. View-changing devices. |
| 41. Eyeglasses and spectacles— | 64. Rods and targets. |
| 43. Bridges— | 29. Stereoscopes— |
| 44. Folding, | 30. Album. |
| 45. Spring— | 31. View-changing. |
| 46. Bar. | 32. Telescopes— |
| 42. Connections, | 34. Field and opera glasses— |
| 54. Lenses, | 35. Folding and collapsible. |
| 47. Lens-mounts, | 36. Supports— |
| 55. Nose-guards, | 37. Focusing. |
| 48. Nose-grips— | 33. Prismatic. |
| 49. Adjustable— | 38. Reflecting attachments. |
| 50. Automatic, | 14. Testing instruments. |
| 51. Supports, | 61. Tripods— |
| 52. Temples— | 62. Cane type. |
| 53. Connections. | 63. Horizontal adjustments. |
| 15. Kaleidoscopes. | 64. Instrument-attaching devices. |
| 17. Kinetoscopes. | 65. Leveling adjustments. |
| 16. Continuous-film— | 67. Window-reflectors. |
| 18. Intermittent-feed, | |

CLASS 93.—PAPER MANUFACTURES. (VII.)

(For definitions see Supplement No. 2, p. 2539.)

Subclasses.

- | | |
|--|--------------------------------------|
| Bag-machines— | Box-machines— |
| 13. Central-fold, | 53. Refolders, |
| 27. Closers, | 55. Setting up, |
| 26. Cutters and closers. | 43. Setting up and covering, |
| 25. Cutters and openers, | 56. Staying. |
| 21. Cutters, openers, and closers, | 93. Bunching and banding. |
| 33. Cutting, | Envelop-machines— |
| 31. Hand bottom-folders, | 74. Drying— |
| tables, | 75. Chain-discharging, |
| 35. Methods, | 61. Miscellaneous, |
| 8. Miscellaneous, | 73. Printing and stamping. |
| 28. Openers— | Reciprocating— |
| 29. Roll, | 71. Carrying mechanism, |
| 30. Side, | 70. Creasing mechanism, |
| 23. Openers and closers— | 72. Ejecting mechanism, |
| 22. Openers, roll, | 67. Folding, |
| 24. Openers, side, | 68. Gumming— |
| 11. Plate-mandrel, | 69. Picker-faces, |
| 34. Printing attachments, | 66. Gumming and folding, |
| 12. Rectangular-mandrel, | 65. Turret, |
| Refolders, | 64. Web-supply, |
| 32. Triangular-fold— | Rotary— |
| 9. Blade-and-roller, | 62. Blank-supply, |
| 10. Mandrel, | 63. Web-supply, |
| 20. Web-formers, | 76. Thread-affixers. |
| 19. Web formers and cutters, | Folding— |
| 18. Web formers, cutters, and closers, | 84. Miscellaneous, |
| 17. Web formers, cutters, and openers, | 85. Powder-paper machines, |
| 14. Web formers, cutters, openers and closers— | 86. Radial-fold. |
| 15. Openers, roll, | 1. Miscellaneous. |
| 16. Openers, side. | Tag-machines— |
| Box-machines— | 90. Eyeletting, |
| 37. Cell-cases— | 87. Miscellaneous, |
| 38. Traveling-carrier, shifting-form, | 89. Pin-ticket making, |
| 54. Covering, | 88. Pin-ticket making and attaching, |
| 58. Cutting and scoring, | 91. String-attaching, |
| 44. Endless-mandrel carrier, | 92. Washer-attaching. |
| 57. Fly-affixers, | Tube-machines— |
| 49. Folding— | 82. Axial-feed, |
| 50. Driers, | 81. Convolute-wind, |
| 51. Plunger-and-die, | 78. Fuse-making, |
| 52. Stationary folders, | 77. Miscellaneous, |
| 45. Web-supply— | 83. Sizing and burnishing, |
| 46. Driers, | 80. Spiral-wind, |
| 47. Plunger-and-die, | 79. Tapering-wind. |
| 48. Stationary folders, | 94. Tubes. |
| 40. Folding and covering, | Wrapping-machines— |
| 39. Folding and setting up, | 5. Crimpers and twistors, |
| 42. Folding and stapling, | 2. Miscellaneous, |
| 41. Folding and staying, | 4. Packet making and wrapping, |
| 59. Mandrels and dies, | 6. Receptacle filling and closing, |
| 36. Miscellaneous, | 3. Receptacle making and filling, |
| 60. Plating, | 7. Traveling-carrier. |

DIVISION VII.—CONTINUED.

CLASS 208.—VELOCIPEDES. (VII.)

Subclasses.

- | | |
|-------------------------------|-------------------------------|
| 11. Bearings. | Handles— |
| 5. Bicycles— | 128. Pneumatic, |
| Header-preventers. | 129. Strip. |
| Bicycle, propulsion— | 67. Harness. |
| Crank and gear— | 129. Holders— |
| 60. Normally fixed stud- | Brackets— |
| plate, | 86. Fixed arm or jaw, |
| 74. Planetary, | 87. Pivoted arm or jaw, |
| 48. Reverting train, | Racks— |
| 49. Rotating side shaft, | 90. Frame-supports, |
| 46. Train— | 88. Wheel or tire sup- |
| 47. Internal rack, | ports— |
| 17. Crank and chain— | 89. Tilting-shoe, |
| Chain adjustments, | Stands— |
| 153. Changeable-speed | 91. Floor-supported, |
| gear, | 92. Wall-supported. |
| 18. Lever and crank, | 139. Miscellaneous. |
| 19. Lever, crank and gear, or | 140. Mud-guards— |
| chain, | 141. Wheel— |
| 20. Lever and ratchet, | 142. Rim— |
| 21. Lever, ratchet and gear, | 143. Limp, |
| or chain, | 144. Sectional. |
| 23. Miscellaneous, | 70. Pedals. |
| 22. Rack-and-pinion. | Polycycles— |
| 13. Brakes— | 42. Figure. |
| 57. Back-pedalling, | Polycycles, propulsion— |
| 60. Band, | 40. Axle-couplings, |
| 58. Pneumatic, | 32. Crank and chain, |
| 59. Roller. | Crank and gear— |
| 45. Carrier. | 51. Planetary, |
| 145. Casings— | 54. Reverting train, |
| 146. Chain— | 55. Rotating side shaft, |
| 147. Attached, | 52. Train— |
| 148. One-piece, | 53. Internal rack, |
| 149. Radially-separable. | 30. Crank and pitman, |
| 24. Child's seats. | 33. Lever and crank, |
| 151. Cleaner attachments— | 34. Lever, crank and gear, or |
| 152. Chain. | chain, |
| 130. Combined handle-bar and | 35. Lever and ratchet, |
| post adjustment. | 36. Lever, ratchet and gear, |
| 27. Coupling-bars. | or chain, |
| 68. Cranks and crank-shafts. | 38. Miscellaneous, |
| 9. Crank-clutches. | 37. Rack-and-pinion. |
| Cranks— | Posts— |
| 69. Variable-leverage. | 131. Mechanical adjustment, |
| 3. Dicycles. | 132. Self-locking. |
| 2. Epicycles. | Props— |
| 93. Frames— | 156. Fixed, |
| 98. Crank-hangers, | Pivoted— |
| 107. Depressible-seat, | One-leg— |
| 104. Drop convertible, | 75. Extension hinged, |
| 96. Forks— | 79. Extension sliding, |
| 97. Springs, | 78. Lever-actuated, |
| 105. Folding, | 79. Spring-locked, |
| 102. Heads— | 80. Universal-joint, |
| 103. Spring, | Two (or more) legs— |
| 95. Joints, | 81. Cam (or gear) spread, |
| 106. Knockdown, | 82. Lever-spread, |
| 110. Ordinary, | 83. Spring-spread, |
| 111. Parallel seats, | Sliding— |
| 113. Polycycles, | 84. One-leg, |
| 155. Pumps, | 85. Two (or more) legs. |
| 94. Spring, | 138. Rests. |
| 101. Spring-axles, | 41. Rowing-machines. |
| 100. Spring saddle-supports, | 15. Saddles— |
| 108. Tandem— | 64. Pneumatic, |
| 109. Convertible, | 65. Rigid-seat, |
| 112. Trailing wheels, | 66. Sectional. |
| 99. Yokes. | 63. Saddle-clamps. |
| 115. Handle-bars— | Saddle-posts— |
| 123. Automatically - collaps- | 62. Rigid, |
| ing, | 61. Spring. |
| 122. Automatically - detach- | 150. Shields. |
| able, | 114. Steering devices. |
| 116. Continuous adjustable— | Steering-wheel— |
| Locks— | 136. Automatically-gov- |
| 117. Cam, | erned, |
| 118. Screw-and-dog, | 137. Locking. |
| 119. Spring, | 26. Steps and foot-rests. |
| 124. Folding, | 133. Telescopic-tube clamps— |
| 120. Sectional, adjustable— | 135. Split-collar, |
| 121. Simultaneously, | 134. Tubular-wedge. |
| 125. Spring. | 71. Toe-clips. |
| 126. Handles— | 1. Unicycles. |
| 127. Auxiliary, | |

DIVISION VIII.

EXAMINER JOHNSON.

CLASSES.—5, Beds; 155, Chairs; 45, Furniture; 65, Kitchen and Table Articles; 211, Store Furniture.

CLASS 5.—BEDS. (VIII.)

Subclasses.

- | | |
|---|--|
| <p>Beds—</p> <ol style="list-style-type: none"> 1. Air. 5. Camp. Bed-bottoms— 39. Fabrics. 40. Fabrics and springs. 25. Slats. 26. Slats and springs. 29. Springs. 3. Bed-clothing. 4. Bedsteads— 41. Attachments. 42. Braces. 8. Extension. 9. Folding— 60. Berths and bunks. 12. Invalid— 43. Head-sections. 44. Lifters and conveyers. 45. Vertically-moving frame. 16. Sofa— 46. Extension. 47. Folding-back. 48. Folding back and seat. 49. Folding-seat. 50. Rotary back and seat. | <p>Bedsteads—</p> <p>Sofa—</p> <ol style="list-style-type: none"> 51. Vertically-moving frame. 17. Table. 18. Wardrobe-bedsteads— 52. Center-folding. 53. End-folding. 34. Extension. 54. Shifting-fulcrum. 37. Single-frame. 38. Sliding-frame. 22. Clothes-clamps. 55. Corner-fastenings. 56. Cradles— 57. Motor-operated. 58. Cribs— 59. Attachments. 10. Hammocks— 31. Stretchers. 32. Supports. 13. Mattresses. 14. Mosquito-nets and canopies. 15. Pillows. 33. Pillow-sham holders. 21. Springs. |
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CLASS 155.—CHAIRS. (VIII.)

Subclasses.

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|---|---|
| <ol style="list-style-type: none"> 44. Baby-jumpers. 45. Baby-walkers. 3. Chairs— 27. Adjustable backs. 28. Adjustable backs and seats. 26. Attachments. 29. Backs and seats independently adjustable. 4. Bottoms. 6. Convertible. 7. Dentists'. 8. Folding— 30. Adjustable. 11. Invalid. 12. Nursery. 13. Opera. 16. Reclining. 18. Rocking— 31. Platform. 21. Step-ladder. 23. Surgical. 36. Swinging. 24. Tilting. | <ol style="list-style-type: none"> 33. Pads and feet. Rests— 9. Foot. 10. Head. 34. School seats and desks. Seats— 2. Car. 5. Circus. 37. Reversible. 25. Spring. 19. Settees. 20. Sofas. 22. Stools and seats— 38. Duplex. 39. Pawl-and-ratchet. 40. Pedestal. 41. Screw. Stools— 42. Cane. 32. Folding. 35. Swings. 43. Upholstery. |
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CLASS 45.—FURNITURE. (VIII.)

Subclasses.

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Bookcases— 53. Adjustable shelf-partitions. 54. Adjustable shelves and shelf-supports. 55. Hanging shelves. 78. Knockdown. 79. Revolving. 56. Roller-shelves. Book and music holders— 57. Base-supported— 80. Adjustable. 81. Rotary. 59. Body-supported. 60. Book-stands— 85. Folding. 86. Leveling. | <ol style="list-style-type: none"> Book and music holders— 58. Bracket-supported— 82. Adjustable. 61. Leaf-holders. 83. Leaf-rests. 62. Music-stands— 121. Portable. 64. Portfolio. Brackets— 65. Arm-supporting— 84. Adjustable. 66. End-supporting— 67. Adjustable. 128. Pneumatic. 5. Bureaus— 88. Knockdown. 89. Carpet-stretchers. |
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CLASS 45.—Continued.

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| <ol style="list-style-type: none"> 43. Carpet stretchers and tackers. 68. Covers. 6. Desks— 90. Attachments. 91. Lids— 92. Flexible. 69. Portable. 93. Sectional. 70. Table. 7. Drawers— 77. Guides. 94. Locking devices. 95. Swinging. 96. Tilting. 2. File-cabinets— 3. Revolving. 4. File-racks. 13. Hat and coat racks— 123. Hooks— 124. Claspings. 125. Swinging-arm. 126. Wire— 127. Single-piece. 15. Insect-guards. 16. Kitchen-cabinets. 18. Mirrors— 97. Bracket. 98. Hand. 99. Multiple. 100. Stand. 22. Packing furniture. 71. Provision-safes— 102. Knockdown. 103. Revolving. 104. Window. 24. Quilting-frames. 105. Screens— 106. Folding. | <ol style="list-style-type: none"> 28. Soap-holders. 41. Spittoons— 107. Covered. 108. Flushing. 31. Tables— Adjustable— 109. Angularly. 110. Angularly and vertically. 74. Folding. 111. Vertically. 75. Attachments. 9. Extension— 112. Center. 113. End. 114. Flexible-top. 115. Slides. 11. Folding— 116. Sectional-top. 122. Game. 17. Kitchen. 46. Lap. 47. Leaf-supports. 48. Leg fastening and bracing. 117. Pedestals. 26. Self-waiting. 27. Sewing-machine— 120. Covers. 50. Surgical. 51. Wall. 32. Towel racks and stands. 52. Type-writer cabinets. 33. Umbrella-stands. 36. Wall-protectors. 37. Wardrobes— 118. Knockdown. 38. Washstands— 119. Reservoir. |
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CLASS 65.—KITCHEN AND TABLE ARTICLES. (VIII.)

Subclasses.

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|---|---|
| <ol style="list-style-type: none"> 3. Cake-turners. 5. Casters— 55. Rotary. 10. Compound tools— 56. Gripping. 45. Condiment-holders— 57. Pulverizing. 12. Cullinary. 13. Cups— 58. Collapsible. 15. Dishes and plates— 59. Covered. 60. Pivoted covers. 16. Dish-covers— 61. Stands. 20. Dust-pans— 62. Brush attachments. 63. Footpieces. 22. Egg-cups. | <ol style="list-style-type: none"> 25. Fruit-lifters. 26. Jar-lifters. 28. Ladles. 29. Napkin-holders. 30. Oyster-openers. 31. Pitchers— 64. Tilting-frame. 32. Plate-lifters. 65. Racks and rests. 36. Scoops. 46. Stopper-extractors— 47. Hook. 48. Screw— 49. Lever-operated. 50. Rotary. 51. Screw-and-lever. 52. Table-tongs. 53. Trays— 54. Attaching devices. |
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CLASS 211.—STORE FURNITURE. (VIII.)

Subclasses.

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|---|--|
| <ol style="list-style-type: none"> 1. Bag and twine holders— 2. Bag-holders. 3. Twine-holders— 4. Take-up— 5. Rotary. 6. Bins. 7. Cabinets— 8. Delivering. 9. Grocers'. 10. Spool. 11. Counters— 12. Attachments. 34. Display-cards. 13. Display-forms. 14. Display-racks— 15. Adjustable-arm. 17. Hanging. 16. Inclosed. 18. Roll. 19. Rope. 20. Rotary— 21. Inclosed. | <ol style="list-style-type: none"> Display-racks— 22. Sample-sheet— 23. Rotary. 24. Display-stands. 28. Display-trays. 35. Pattern-exhibitors. 36. Post-office furniture. Sample-holders— 40. Box-attached. 29. Serving apparatus— 30. Printing attachment. 31. Roll-holders— 32. Cutting attachment. 33. Feeding attachment. 25. Show-cases— 26. Lid-lifters. 27. Shelving. 37. Ticket-cases— 38. Gravity-feed. 39. Spring-clasp. |
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DIVISION IX.

EXAMINER TRYON.

CLASSES.—230, Air and Gas Pumps; 169, Fire-Extinguishers; 138, Hydraulic Motors; 103, Pumps; 182, Sewerage.

CLASS 230.—AIR AND GAS PUMPS. (IX.)

Subclasses.

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|---------------------------------|------------------------------|
| 35. Air-motors— | 17. Fluid piston— |
| 36. Bellows, | 17. Tank and bell, |
| 37. Convertible motor and pump. | 18. Tank and float, |
| 1. Automatic fans. | 19. Tank and hand-valve, |
| 2. Bellows. | 20. Tank and overflow-valve, |
| 3. Bulb. | 21. Tank and pressure-valve, |
| 4. Collapsible tube. | 22. Tank and vane, |
| 6. Cooling and sealing. | 23. Tilting-tank. |
| 5. Diaphragm. | 24. Pressure-control. |
| 7. Fan attachments— | 25. Receivers. |
| 8. Bellows, | 26. Sand-blowers. |
| 9. Fly-wheel, | 27. Solid piston— |
| 10. Treadle. | 27. Rectilinear— |
| 11. Fan-blowers. | 28. Hydraulic motor, |
| Fluid-piston— | 29. Oscillating, |
| 12. Endless-channel, | 30. Rotary— |
| 13. Injectors and aspirators— | 31. Rectilinear. |
| 14. Rotary, | 32. Systems. |
| 15. Fall-tube, | 33. Toilet-fans. |
| 16. Reciprocating-piston, | 34. Valves and valve-gear. |

CLASS 103.—PUMPS. (IX.)

Subclasses.

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|---|----------------------------------|
| 45. Accumulators. | 66. Elements— |
| 52. Air-suction chamber. | 66. Valves. |
| 53. Assembling. | 67. Fluid motive power— |
| 5. Cattle. | 68. Fluid-transmitting. |
| 6. Chain. | 69. Water-wheel. |
| 50. Collapsible tube. | 17. Hollow piston-rod— |
| 54. Combined types. | 70. Double-acting— |
| 8. Compressed-air water - elevators— | 71. One solid piston, |
| 84. Aerated column, | 72. Multiple-cylinder. |
| 55. Hydraulic compression. | 73. Oscillating piston. |
| 10. Diaphragm. | 51. Railway-tank feeders. |
| 56. Differential reciprocating pistons— | 29. Rams. |
| 57. Hollow piston-rod. | 44. Rotary double-piston. |
| Elements— | 43. Rotary single-piston. |
| 58. Air and vacuum chambers, | 74. Sand-bailers. |
| 60. Cut-off and drain devices, | 75. Solid reciprocating piston— |
| 59. Cylinders, | 76. Double-acting, |
| 61. Miscellaneous and combined, | 77. Multiple-cylinder— |
| 62. Operating devices, | 78. Double-acting. |
| 63. Pistons, | 79. Systems. |
| 64. Sand traps and strainers, | 80. Valved reciprocating piston— |
| 65. Stocks, curbs, and supports, | 81. Multiple-cylinder, |
| | 82. Opposing pistons, |
| | 83. Successive pistons. |
| | 35. Windlass water-elevator. |

CLASS 169.—FIRE-EXTINGUISHERS. (IX.)

Subclasses.

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|--------------------------------------|--------------------------------|
| 5. Automatic nozzles and sprinklers. | 15. Portable— |
| 6. Automatic valves. | 15. Grenades, |
| 4. Car-heaters. | 16. Hand vessels, |
| 7. Chemical-mixing— | 17. Liquid pumps and syringes, |
| 8. Automatic. | 18. Water-towers, |
| 9. Chemical stream impregnating. | 19. Wheeled. |
| 10. Combustion. | 20. Stationary systems— |
| 11. For oil-tanks. | 21. Automatic, |
| 12. Gas-pressure supply. | 22. Automatic valve— |
| 13. Miscellaneous. | 23. Pressure-controlled, |
| Portable— | 24. Chemical-mixing, |
| 14. Automatic, | 25. Gas-pressure supply. |

CLASS 182.—SEWERAGE. (IX.)

Subclasses.

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| 9. Animal-stops. | 6. Mechanical treatment |
| 2. Cleaning. | 7 Systems. |
| 3. Construction. | Traps— |
| 4. Flushing. | 11. Air-valves, |
| 8. Flush-tank siphons. | 12. Liquid-seal— |
| 10. Manholes, catch-basins, and cesspools. | 13. Pipe-inlet, |
| | 14. Valve-seal. |

CLASS 138.—HYDRAULIC MOTORS. (IX.)

Subclasses.

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|--------------------|--------------------------------|
| 11. Chain. | 2. Reciprocating. |
| 13. For cranes. | 3. Rotary— |
| 8. For elevators— | 12. Feathering, |
| 14. Valves. | 18. Impact. |
| 15. Varying power. | Turbines— |
| 9. For jacks. | 4. Bottom-supply, |
| 10. For presses— | 5. Side-ring supply, |
| 16. Valves. | 6. Top and side direct-supply. |
| 17. Varying power. | 7. Top-ring supply. |
| 1. Oscillating. | |

DIVISION X.

EXAMINER MITCHELL.

CLASS.—21, Carriages and Wagons.

CLASS 21.—CARRIAGES AND WAGONS. (x.)

Subclasses.

- | | |
|-------------------------------------|--|
| 80. Ambulances and stretch-
ers. | 44. Seats— |
| 2. Axle-boxes. | 45. Spring. |
| 4. Axle-skins. | 46. Shifting-rails. |
| 5. Axles. | 93. Short-turning gear. |
| 7. Bodies. | 46. Sled-brakes. |
| 81. Boots and aprons. | 47. Sled-propellers. |
| 10. Brake-levers. | 48. Sleds— |
| 8. Brakes— | 94. Hand, |
| 9. Automatic, | 95. Shifting thills, |
| 82. Shoes. | 96. Wheel-runners. |
| 11. Carriage-irons. | 49. Spoke-sockets. |
| 85. Chafe-irons. | 97. Spring-gear— |
| 12. Children's carriages— | 99. Axle cross, |
| 83. Folding. | 101. Lever, |
| 84. Stops. | 100. Longitudinal, |
| 86. Chute-wagons. | 98. Side-bar cross. |
| 13. Clips. | 50. Springs— |
| 14. Close carriages. | 102. Bolster, |
| 15. Dashboards. | 105. Braces and equalizers, |
| 125. Doors and windows. | 103. Elliptic, |
| 76. Draft-equalizers. | 51. Platform, |
| 19. Drays. | 104. Shackles, |
| 20. Dumping-wagons. | 53. Torsion. |
| 21. End-gates. | 54. Standards. |
| 87. Felloes and rims. | 55. Steps. |
| 23. Fenders. | 56. Sulkies. |
| 24. Fifth-wheels. | 57. Thill-couplings— |
| 88. Hand-barrows. | 106. Antirattlers, |
| 74. Hay-racks. | 107. Jacks. |
| 26. Hearse. | 108. Thill-supports. |
| 27. Holdbacks. | Tires— |
| 75. Horse-detachers. | 110. Metallic. |
| 28. Horse-carriages. | 63. Tongue-supports. |
| 29. Hounds. | 60. Top-joints. |
| 30. Hub-attaching devices. | 61. Top-props. |
| 89. Hub-caps. | 62. Tops. |
| 31. Hubs. | 114. Traction-engines— |
| 32. King-bolts. | 124. Steppers. |
| 33. Lumber-wagons. | 64. Traction-wheels. |
| 90. Motor-vehicles. | 65. Trucks— |
| 77. Neck-yokes. | 121. Barrel, |
| 36. Poles and shafts— | 116. Brick, |
| 91. Convertible. | 122. Drying, |
| 92. Pole-tips. | 118. Elevating, |
| 127. Rein-holders— | 115. House-moving, |
| 132. Clamp, | 120. Implement, |
| 133. Spring— | 117. Piano, |
| 134. Pivoted, | 119. Water-barrel. |
| 135. Weighted, | 68. Wheelbarrows. |
| 136. Wheel. | 69. Wheels. |
| 128. Rein-supports. | 79. Whiffletree-hooks. |
| 39. Running-gear. | 78. Whiffletrees. |
| 40. Sand-bands. | 129. Whip-sockets— |
| 41. Seat-locks. | 130. Lock. |
| 42. Seats— | 131. Whip-sockets and rein-
holders combined. |
| 43. Shifting, | |

DIVISION XI.

EXAMINER DISNEY.

CLASSES.—12, Boot and Shoe Making; 36, Boots, Shoes, and Leggings; 218, Button, Eyelet, and Rivet Setting; 54, Harness; 69, Leather Manufactures; 1, Nailing and Stapling; 231, Whips and Whip Apparatus.

CLASS 12.—BOOT AND SHOE MAKING. (XI.)

(For definitions see Supplement No. 3, p. 2704.)

Subclasses.

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|--|--|
| <ul style="list-style-type: none"> 69. Boot-tree holders. 68. Boot-treating machines. 116. Boot-trees— 120. Clasp, 118. Foot-loops, 119. Footpieces, 117. Plunger-expanded. 70. Burnishing-machines— 71. Heel— 72. Oscillating-jack— 73. Automatic transverse-feed, 74. Oscillating tool-head— 75. Automatic transverse-feed, 77. Rotary-tool, 76. Shank and tread, 78. Vibrating-tool— 79. Hand-guided. 104. Burnishing-tools— 105. Rotary. 90. Cement-applying devices. 108. Channeling-tools. 81. Felt-boot formers. 128. Formers— 129. Pneumatic, 130. Stretchers— 132. Lateral, 131. Lateral and longitudinal. 42. Heel-machines— 50. Assembling, 49. Beading, 46. Bevel and seat cutting, 47. Breasting, 43. Breasting and nailing, 44. Die-cutting and nailing, 48. Molding, 45. Trimming and nailing. 82. Inseam-trimming machines— 83. Horn-carried knife. 2. Lasting and nailing machines— 3. Hand-guided driver, 4. Multiple drivers, 5. Pivoted-jack. 6. Lasting and sewing machines. 7. Lasting-machines— 14. End-lasting, 8. Girth-stretcher, 9. Nipper-stretcher— 10. Wiper-folder— 11. Multiple work-supports, 15. Relasting, 16. Tack-pullers, 12. Wiper-stretcher— 13. Pivoted, 107. Lasting-tools— 113. Fly-closers, 108. Nailing and stretching, 110. Stretchers— 111. Multiple-grip, 112. Toe, 109. Stretchers and hammers. 133. Lasts— 134. Adjustable, 139. Heel-plates and sockets, 137. Instep-block fasteners— 138. Sliding-bolt, 140. Peg-receivers, 135. Separate heel-block— 136. Hinged, 141. Shoe-retainers. 1. Miscellaneous. 121. Patterns. 84. Peg-cutters. 142. Processes— 144. Blank-laying-out, 147. Heel, | <ul style="list-style-type: none"> Processes— 145. Lasting, 146. Miscellaneous parts. 60. Shank-machines. 122. Shoemakers' benches. 85. Sole and heel edge trimmers— 86. Clamped-work— 87. Rotary-cutter, 114. Hand-tools— 115. Double-grip, 88. Rotary-cutter— 90. Adjustable rand-guide, 89. Multiple cutter-head, 91. Rotary cutter-heads— 92. Axially-adjustable, 94. Inserted cutters— 95. Angularly-adjustable, 93. Supplemental cutters. 17. Sole-machines— 21. Blank-molding— 22. Edge, 23. Blank-rounding— 25. Clamped-work— 26. Rotary workandcutter, 24. Strip-feed, 27. Channeling— 28. Clamped-work, 18. Channeling and trimming— 19. Clamped-work, 29. Channel-flap layers, 30. Channel-flap turners, 31. Edge-linking, 32. Imitation-stitch, 20. Insole-reinforcing, 33. Laying and levelling— 38. Dies and formers, 36. Multiple work-supports— 37. Revolvable, 35. Oscillating jack and former, 34. Roll, 39. Lining-apppliers, 40. Slitting and grooving, 41. Stitch-separating and indenting. 61. Toe and heel stiffener machines— 64. Molding— 65. Roll, 66. Separable-matrix, 62. Skiving— 63. Recessed-carrier. 103. Tools. 96. Upper-creasing, 97. Upper crimping and stretching— 102. Formers and clamps, 99. Former and wiper— 100. Belt-carried former, 101. Pivoted-former, 98. Shank-stretchers. 51. Upper-machines— 52. Assembling, 53. Beading, 54. Edge-notching, 55. Folding, 56. Marking, 58. Skiving, 59. Strap-covering, 57. Turning. 67. Welt and rand machines. 123. Work-supports— 124. Expandible-holder, 125. Heel-clamping, 126. Last-jacks— 127. Saddle and spindle. |
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CLASS 36.—BOOTS, SHOES, AND LEGGINGS. (XI.)

(For definitions see Supplement No. 1, p. 2605.)

Subclasses.

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| <ul style="list-style-type: none"> 59. Antislipping devices— 67. Calks, 62. Detachable— 66. Attached fasteners, 64. Clamping— 65. Screw, 63. Sandal, 61. Disengaging, 60. Pole-climbers. 69. Counter and heel supports. 68. Counter-stiffeners. 9. Felt and fabric. 70. Garment-protectors. 34. Heels— 35. Cushion— 36. Detachable, 37. Internal cushion, 38. Metallic spring, 42. Detachable, 40. Metallic shell— 41. Detachable, 39. Rotary. 10. Inside slippers. 2. Leggings and gaiters. 1. Miscellaneous. 11. Moccasins. 71. Pads and foot-supporters. 72. Protectors— 73. Sole and heel— 75. Embedded, 74. Spur-attached. 4. Rubber— 5. Overshoes— 6. Heelless, 7. Retainers— 8. Heel-engaging. 76. Shanks. 12. Sole-attaching means— 15. Detachable soles, 23. Fasteners— 24. Peg, | <ul style="list-style-type: none"> Sole-attaching means— 16. Outturned uppers, 22. Prepared soles, 20. Processes, 14. Rubber, 21. Seams, 18. Single-faced stitch, 19. Through-and-through, 17. Welt-connected, 13. Wooden soles. 25. Soles— 28. Cushion— 29. Pneumatic, 26. Fleeced slipper, 43. Insole— 44. Laminated, 30. Laminated, 32. Rubber, 31. Sectional, 27. Spring-heel, 33. Wooden. 77. Toecaps and tips. 45. Uppers— 47. Blanks— 48. Integral vamp and quarters— 49. Seamless, 50. Closures— 52. Buttonhole-pieces, 51. Elastic, 53. Silt stays, 54. Tongue-pieces, 46. Corded, 55. Lining, 58. Metallic seam-stiffener, 56. Pulls, 57. Seams, stays and pipings. 3. Ventilated. 78. Welts and rands. |
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CLASS 218.—BUTTON, EYELET, AND RIVET SETTING. (XI.)

(For definitions see Supplement No. 1, p. 2582.)

Subclasses.

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|---|---|
| <ul style="list-style-type: none"> Implements— 20. Button— 22. Pliers— 24. Staple-fastener, 23. Tack-fastener, 21. Riveting, 27. Button-detaching, 25. Eyeletting, 26. Lacing-hook, 19. Riveting. Machines— 4. Button— 12. Button-feeders, Eye-shank— 7. Tack-fastener, 5. Riveting— 6. Magazine, Staple-fastener— 8. Staple making and setting, | <ul style="list-style-type: none"> Machines— Button— Staple-fastener— 10. Threaded-button feed, 11. Threaders, 9. Threading and setting, 13. Tack-fastener feeders, 14. Button-carding, 18. Eyeletting— 15. Magazine, 16. Lacing-hook— 17. Magazine, 1. Riveting— 2. Magazine, 3. Staple, 28. Packages. |
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DIVISION XI.—CONTINUED.

CLASS 54.—HARNESS. (XI.)

(For definitions see Supplement No. 3, p. 2701.)

Subclasses.

- | | |
|--------------------------------------|-------------------------------|
| 69. Attaching and detaching devices. | 32. Hame-tugs— |
| 4. Back-bands. | 33. Adjustable. |
| 79. Blankets. | 64. Hitching-strap holders. |
| 80. Bonnets and shields. | 34. Hitching-straps. |
| 71. Breaking and training devices— | 82. Horse-boots. |
| 72. Leg-spreaders. | 87. Loops. |
| 58. Breast-straps— | 35. Martingales. |
| 59. Shields and connectors. | 1. Miscellaneous. |
| 5. Breeching. | 77. Ox-yokes. |
| 6. Bridles— | 65. Pads— |
| 7. Bits— | 66. Back, |
| 8. Mouthpieces— | 68. Fasteners. |
| 9. Double, | 67. Neck. |
| 10. Blinds— | 73. Rein-guards. |
| 11. Covering and uncovering, | 74. Rein-holds. |
| 12. Brow-bands, | 36. Reins. |
| 13. Crown-loops, | 37. Saddles— |
| 14. Gag-runners, | 38. Harness— |
| 15. Strangers. | 39. Cart, |
| 61. Check-hooks— | 41. Cushions, |
| 62. Movable-keeper. | 40. Pivoted side plates, |
| 70. Checking and unchecking devices. | 42. Seat and tree connectors. |
| 16. Checkreins— | 43. Tug-bearers, |
| 17. Hook-loops. | 44. Riding— |
| 19. Collars— | 46. Attachments, |
| 20. Breast, | 45. Side. |
| 21. Fasteners. | 83. Spurs. |
| 18. Combined collar and hames. | 47. Stirrups— |
| 22. Cruppers. | 48. Elastic, |
| 86. Elastic connections. | 49. Safety. |
| 81. Fly-nets. | 84. Supports. |
| 23. Girths. | 78. Tail-holders. |
| 24. Halters— | 63. Terrets. |
| 85. Connectors. | 50. Thill-tugs— |
| 30. Hame and trace connectors— | 51. Open. |
| 31. Adjustable. | 54. Trace-carriers— |
| 25. Hames— | 55. Hook. |
| 26. Fasteners— | 56. Trace-end supporters. |
| 27. Lever, | 52. Traces— |
| 28. Strap, | 53. Whiffletree-connectors. |
| 29. Top. | 2. Track. |
| | Trimmings— |
| | 75. Covered, |
| | 76. Ornamental. |
| | 57. Underchecks. |
| | 3. Yokes. |

CLASS 1.—NAILING AND STAPLING. (XI.)

(For definitions see Supplement No. 2, p. 2558.)

Subclasses.

- | | |
|------------------------------------|--|
| 44. Glaziers' point-setters. | Machines— |
| Implements— | Shoe— |
| 47. Nail-driving— | Heel-nailing— |
| 46. Magazine, | 35. Cross-head and turret, |
| 48. Staple forming and setting, | 37. Laterally - adjustable driver-block, |
| 50. Staple-setting— | 38. Multiple rotary heel-support, |
| 49. Magazine, | 39. Nail-feeding, |
| Strip— | 34. Heel-plate-attaching, |
| 52. Nail and peg, | 33. Heel pressing and loading, |
| 53. Tack, | 19. Nail-driving— |
| 51. Wire-nail forming and driving. | 18. Magazine, |
| 43. Lath and shingle nailing. | 20. Staple forming and setting, |
| Machines— | 21. Staple-setting, |
| Blind slat and rod— | Strip— |
| 54. Staple forming and setting, | 22. Nail, |
| 55. Staple-setting, | 23. Peg, |
| Book— | 24. Tack, |
| 7. Staple forming and setting, | 24.5. Strips, |
| 8. Staple-setting, | 25. Wire inserting and cutting— |
| Box— | 26. Screw, |
| 14. Assembling and nailing, | 27. Wire-nail forming and driving— |
| 10. Nail-driving— | 28. Direct wire-feed, |
| 16. Nail-feeding, | 29. Pivoted nail-carrier, |
| 15. Tables, | 30. Reciprocating nail-carrier, |
| 9. Nail forming and driving, | 31. Rotary nail-carrier, |
| 11. Staple forming and setting— | 41. Work-supports, |
| 12. Sheet-metal, | 2. Staple forming and setting, |
| 13. Staple-setting, | 4. Staple-setting— |
| 1. Nail-driving— | 3. Magazine. |
| 5. Boxes, | 45. Magazine-hammers. |
| 6. Nail-feeding, | 56. Packages. |
| 40. Packet-looping, | |
| 42. Reels, | |
| Shoe— | |
| 32. Heel-nailing— | |
| 36. Cross-head, | |

CLASS 231.—WHIPS AND WHIP APPARATUS. (XI.)

(For definitions see Supplement No. 3, p. 2703.)

Subclasses.

- | | |
|---------------------------------|------------------------------|
| 1. Whip-machines. | Whips— |
| 2. Whips— | 5. Lash and snap fastenings, |
| 6. Caps, buttons, and joints, | 4. Lashes. |
| 3. Convertible whips and canes, | |

CLASS 69.—LEATHER MANUFACTURES. (XI.)

(For definitions see Supplement No. 2, p. 2552.)

Subclasses.

- | | |
|-----------------------------|---------------------------|
| 21. Articles and processes. | Machines— |
| 1. Machines— | Skiving and splitting— |
| 1.5. Belt-stretching, | Fixed-knife— |
| 2. Cutting and impressing. | 13. Roller-feed— |
| 5. Folding and rolling, | 14. Trimming attachments, |
| 8. Forming and pressing, | 15. Reciprocating-knife, |
| 3. Horse-collar-shaping, | 16. Rotary disk knife, |
| 4. Horse-collar-stuffing, | 17. Strap-finishing, |
| 6. Rounding, | 18. Tack-leathering. |
| 7. Seam-pressing, | 20. Tools. |
| 9. Skiving and splitting— | 19. Work-holders. |
| 10. Belt-knife, | |
| 11. Fixed-knife— | |
| 12. Reciprocating-feed, | |

DIVISION XII.

EXAMINER WRIGHT.

CLASSES.—187, Elevators; 64, Journal-Boxes, Pulleys, and Shafting; 184, Lubrication; 74, Machine Elements.

CLASS 187.—ELEVATORS. (XII.)

Subclasses.

- | | | |
|------------------------------|----------------------------|--------------------------------|
| 11. Automatic stops. | 36. Bodily-movable— | 46. Safety devices— |
| 12. Chairs. | 37. Wedge. | 47. Catches and grips— |
| 13. Combined locks and auto- | 39. Clutch-loop. | 48. Vertically-pivoted, |
| matic stops. | 40. Horizontally-pivoted | 49. Well-supported mov- |
| 2. Controllers— | jaws. | able stops— |
| 35. Running-rope. | 41. Eccentric. | 45. Car-actuated, |
| 14. Counterweights. | 38. Miscellaneous. | 18. Door-locked controllers, |
| 3. Dumb-waiters. | 42. Momentum-operated, | 21. Overwinding, |
| 1. Elevators. | 43. Rack-engaging catches, | 25. Slack-cable stops, |
| 5. Guides. | | 19. Speed-governors— |
| 6. Indicators. | | 20. Fluid-retarders, |
| 7. Lazy-tongs. | | 23. Well-bottom cushions, |
| 16. Locks. | | 24. Well-obstruction. |
| 17. Mail. | | 9. Screw. |
| 47. Rope-drive. | | 26. Screw and traveling sheave |
| 8. Safety devices— | | or block. |
| 48. Catches and grips— | | Well-doors— |
| 27. Horizontal— | | Horizontal— |
| 28. Horizontal-hinge, | | 27. Horizontal-hinge, |
| 29. Horizontally-slidable, | | 28. Horizontally-slidable, |
| 30. Vertical-hinge, | | 29. Vertical-hinge, |
| 31. Vertically-slidable, | | 30. Vertically-slidable, |
| 32. Vertical— | | Vertical— |
| 33. Horizontal-hinge, | | 31. Horizontal-hinge, |
| 34. Horizontally-slidable, | | 32. Horizontally-slidable, |
| 35. Vertical-hinge, | | 33. Vertical-hinge, |
| 36. Vertically-slidable. | | 34. Vertically-slidable. |

CLASS 64.—JOURNAL-BOXES, PULLEYS, AND SHAFTING. (XII.)

Subclasses.

- | | |
|-----------------------------|------------------------------|
| 27. Axles, lubricating. | 44. Compositions for coating |
| 4. Belt-shifters— | 8. rims, |
| 51. Lifters. | 8. Expansible, |
| 5. Belt-tighteners. | 40. Grip. |
| 7. Compensating journals. | 26. Lubricating. |
| 41. Gudgeons. | 45. Non-metallic rim-cover- |
| 21. Idle-pulley supports. | ings, |
| 10. Journal-boxes— | 18. Split. |
| 52. Bodily-movable, | 36. Roller-bearings— |
| 19. Brasses. | 57. Ball— |
| 20. Compositions, | 58. Antifrictionally-spaced, |
| 53. Eccentric adjustment, | 59. Spaced, |
| 47. Fluid-support, | 7. Ball-and-cylinder, |
| 22. Guards, | 38. Cylinder— |
| 23. Lids, | 39. Circular series— |
| 24. Lubricating— | 61. Antifrictionally- |
| 31. Band-applying, | spaced, |
| 32. Centrifugal, | 62. Spaced. |
| 28. Coolers, | 60. Toothed. |
| 46. Materials for feeding | 12. Shaft-casings. |
| oils, | 13. Shaft-couplings. |
| 33. Roller-applying— | 14. Shaft-hangers. |
| 34. Elastically-support- | 29. Shafting— |
| ed, | 30. Flexible. |
| 56. Vertical spindle, | 25. Thrust-bearings— |
| 35. Yieldably-supported | 49. Ball, |
| pads, | 50. Cylinder. |
| 54. Rocking adjustment, | Truck-bearings— |
| 48. Vertical spindle, auto- | 63. Ball, |
| matic centering, | 64. Cylinder, |
| 2. r-compensating. | 65. Rocker. |
| — | |
| cape rims, | |

CLASS 184.—LUBRICATION. (XII.)

(For definitions see Bulletin No. 19, p. 3.)

Subclasses.

- | | |
|-------------------------------|--------------------------------|
| 12. Conveyers. | 79. Lubricators— |
| 14. Lubricators— | Gravity-feed— |
| 15. Belt, cable, or chain lu- | Automatic cut-off— |
| bricators— | Horizontally-recip- |
| 17. Roller-applied, | rocating valve, |
| 16. Swab-applied, | Rotatable-valve— |
| 103. Constant-level, | 72. Fluid-pressure op- |
| 18. Cylinder-lubricators— | erated, |
| 20. Rotary-swab-applied, | 71. Mechanically - o p - |
| 19. Swab-applied, | erated, |
| 106. Drip-pans, | 73. Pendulum - o p e r - |
| 21. Elevator-guide lubrica- | ated, |
| tors— | 68. Thermostats, |
| 23. Rotary-brush or roller, | Vertically-reciproc- |
| 22. Swab, | ating valve— |
| Force-feed— | 77. Centrifugally - o p - |
| 64. Capillary attraction, | erated, |
| 61. Conveyers— | 76. Fluid-pressure op- |
| 62. Bucket— | erated, |
| 63. Rotary, | 74. Mechanically-oper- |
| Fluid-operated— | ated— |
| 60. Abrasion, | 75. Spring-retained, |
| 49. Condensation dis- | 78. Pendulum - o p e r - |
| placement— | ated, |
| 53. Auxiliary feeding- | 69. Vibrators, |
| receptacles, | 80. Combined closure and |
| 52. Choke-plugs, | valve, |
| 50. Double-passage, | 87. Fiber valve, |
| 51. Single-passage, | 86. Locking-valve, |
| 54. Displacement, | 83. Measuring-valve, |
| 55. Steam or air— | 81. Multiple-feed, |
| 57. Initial pressure, | 85. Siphons, |
| 56. Injectors, | 82. Vertically - m o v a b l e |
| 58. Suction— | valve, |
| 59. Vented, | 104. Heating and cooling de- |
| Followers— | vices, |
| 47. Balanced-pliston, | 98. Liquefiers— |
| 43. Centrifugal, | 99. Solid-stick, |
| 39. Fluid-operated— | 88. Oil-cup closures— |
| 40. Fluid-return, | 89. Depressible cap, |
| 41. Spring-assisted, | 90. Hinged-cover— |
| 42. Spring-return, | 91. Spring-controlled, |
| 38. Hand-operated, | 92. Rotatable-cover— |
| 48. Locking devices, | 93. Spring-controlled, |
| 37. Mechanically - o p e r - | 94. Slidable-cover— |
| ated, | 95. Spring-controlled, |
| 44. Pendulum-operated, | 24. Piston-rod lubricators— |
| 45. Spring-operated, | 25. Swab, |
| 46. Weight-operated, | 105. Refilling devices, |
| 26. Pumps— | 101. Roller, |
| 36. Attachments, | 96. Sight-feeds— |
| 29. Fluid-operated, | 97. Attachments, |
| 28. Hand-operated, | 100. Slide-bearing lubrica- |
| 27. Mechanically - o p e r - | tors, |
| ated, | 102. Swab. |
| 34. Oscillating distribut- | 2. Mine-car lubrication. |
| ing-valve, | 1. Miscellaneous. |
| 32. Oscillating-piston, | 5. Slide-bearing lubrication. |
| 30. Pendulum-operated, | 13. Splash. |
| 31. Rotary, | 6. Systems— |
| 35. Rotary distributing- | 7. Conveying devices— |
| valve, | 8. Continuous-tube, |
| 33. Rotary piston and | 9. Sliding-tube |
| valve, | 10. Wipers, |
| 65. Gravity-feed— | 11. Splash. |
| 84. Air-tight receptacle, | 3. Track or wheel lubrication. |
| 66. Automatic cut-off— | 4. Windmill lubrication. |
| 70. Centrifugal, | |
| 67. Electrically - o p e r - | |
| ated. | |

DIVISION XII.—CONTINUED.

CLASS 74.—MACHINE ELEMENTS. (XII.)

Subclasses.

- | | |
|--|---|
| <p>62. Belts—</p> <p>63. Laminated,</p> <p>64. Link,</p> <p>65. Metal-reinforced,</p> <p>66. Round,</p> <p>67. Woven-wire.</p> <p>1. Cams and eccentrics.</p> <p>5. Cranks and levers—</p> <p>38. Cranks and wrist-pins,</p> <p>33. Handles,</p> <p>39. Hand-levers.</p> <p>6. Fly-wheels.</p> <p>56. Gear-casings.</p> <p>7. Gearing—</p> <p>50. Alternating rotary,</p> <p>21. Belt—</p> <p>51. Guides,</p> <p>26. Frictional,</p> <p>57. Interchangeably-locked—</p> <p>58. Slidable gears,</p> <p>59. Slidable keys,</p> <p>34. Planetary—</p> <p>35. Eccentric,</p> <p>36. Screw,</p> <p>40. Screw-and-nut,</p> <p>28. Sectional,</p> <p>31. Sprocket—</p> <p>61. Expandible,</p> <p>32. Sprocket-chains—</p> <p>49. Connectors,</p> <p>42. Endless-belt,</p> | <p>Gearing—</p> <p>Sprocket-chains—</p> <p>43. Solid-link,</p> <p>44. Solid-link and coupler,</p> <p>41. Teeth and bodies,</p> <p>29. Yieldable.</p> <p>8. Gibs and keys.</p> <p>53. Intermittent-grip devices—</p> <p>54. Ratchet.</p> <p>55. Strap and dog or ball.</p> <p>13. Machine-brakes—</p> <p>45. Centrifugal speed-regulators,</p> <p>69. Dash-pots,</p> <p>70. Electrically-operated,</p> <p>46. Stop mechanisms,</p> <p>37. Strap.</p> <p>14. Mechanical movements.</p> <p>20. Overcoming dead-centers.</p> <p>16. Fawls and ratchets—</p> <p>60. Noiseless.</p> <p>17. Pitmen—</p> <p>71. Counterbalanced,</p> <p>47. Longitudinally-adjustable rod,</p> <p>48. Longitudinally-yieldable.</p> <p>27. Racks and pinions.</p> <p>52. Set-screw guards.</p> <p>68. Springs.</p> <p>19. Universal joints.</p> |
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DIVISION XIII.

EXAMINER SEWALL.

CLASSES.—86, Arms, Projectiles, and Explosive Charges: Making; 10, Bolt, Nail, Nut, Rivet, and Screw Making; 77, Boring and Drilling; 79, Button-Making; 59, Chain, Staple, and Horseshoe Making; 85, Driven, Headed, and Screw-Threaded Fastenings; 90, Gear-Cutting, Milling, and Planing; 205, Metal-Drawing; 78, Metal Forging and Welding; 80, Metal-Rolling; 76, Metal Tools and Implements: Making; 29, Metal-Working; 163, Needle and Pin Making; 82, Turning.

CLASS 86.—ARMS, PROJECTILES, AND EXPLOSIVE CHARGES. MAKING (XIII.)

(For definitions see Bulletin No. 5, p. 5).

Subclasses.

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|-----------------------------|-------------------------------|
| 23. Ammunition-loading— | 10. Ammunition-making— |
| 42. Bullet-patching, | 11. Caps and cartridges— |
| 43. Bullet-setting, | 12. Paper shells— |
| 36. Capping and uncapping— | 13. Assembling, |
| 37. Implements— | 18. Processes, |
| 38. Magazine, | 14. Shell-heading, |
| 39. Crimping— | 17. Shell lining and varnish- |
| 41. Crimper-heads, | ing, |
| 40. Implements, | 15. Shell tapering and neck- |
| 31. Filling— | ing, |
| 32. Cap and cartridge prim- | 16. Shell-trimming, |
| ing, | 19. Lubricating, |
| 33. Implements— | 6. Shells. |
| 34. Flasks and chargers, | 47. Cartridge-packing. |
| 35. Measures, | 45. Feeding devices— |
| 29. Filling and ramming— | 46. Shell. |
| 30. Rammers, | 4. Gun-barrels. |
| 24. Implements, | 20. Loading fire works and |
| 25. Loading and shell-clos- | blasting charges— |
| ing— | 21. Implements— |
| 28. Implements, | 22. Fuse. |
| 26. Rectilinear shell-feed, | 1. Miscellaneous. |
| 27. Rotary shell-feed, | 2. Ordnance— |
| 44. Shell-holders. | 3. Processes. |
| Ammunition-making— | 5. Rifling. |
| 7. Bullets and shot— | |
| 8. Bullet-swaging, | |
| 9. Processes, | |

CLASS 10.—BOLT, NAIL, NUT, RIVET, AND SCREW MAKING. (XIII.)

(For definitions see Supplement No. 4, p. 2998.)

Subclasses.

- | | |
|--------------------------------|--------------------------------|
| 155. Bolt and nut assembling. | 161. Capping nails and screws— |
| 11. Bolt and rivet making— | 162. Processes, |
| 22. Anvils, | 157. Rectangular stock-feed, |
| 19. Bolt-head finishing— | 158. Rotary work-holder, |
| 20. Bronching, | 162. Distributors and feeders— |
| 21. Bolt-pointing, | 163. Agitated-chute, |
| 14. Cotter-slot punching, | 164. Agitated-hopper, |
| 24. Dies, | 166. Gripping feeding-jaws, |
| 26. Heading-punches, | 165. Inclined chute, |
| 12. Multiple-header, | 171. Nail-plate— |
| 27. Processes, | 178. Nippers and nose- |
| 15. Reciprocating die and | pieces, |
| header | 172. Oscillating, |
| 16. Toggle-closing dies, | 173. Reversing, |
| 17. Wedge-closing dies, | 174. Gearing— |
| 13. Rotary multiple dies, | 175. Rack-and-pinion, |
| 23. Safety devices, | 176. Segmental, |
| 25. Shears, | 177. Strap-drive, |
| 18. Side-swaging, | 167. Reciprocating-lifter, |
| 156. Capping nails and screws— | 168. Rotary-cylinder, |
| Des. | 169. Rotary-disk, |
| 16. Ticking devices, | 170. Rotary-hopper. |

CLASS 10.—Continued.

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|----------------------------|-----------------------------|
| 1. Miscellaneous. | Screw-threading— |
| Nail-making— | Implements— |
| 28. Cut nails— | 111. Dies— |
| 32. Cutting, | 110. Combined cutting- |
| 30. Cutting and heading, | off and threading, |
| 31. Cutting and pointing, | 116. Divided— |
| 35. Dies, | 117. Coned-screw ad- |
| 36. Horseshoe-nails— | justment, |
| 37. Cutting and finish- | 118. Integral— |
| ing, | 119. Adjustments, |
| 40. Dies, | 114. Multiple— |
| 38. Finishing— | 115. Rotatable die- |
| 39. Rotary work- | block, |
| holder, | 112. Pipe-trimming, |
| 41. Nail-plates, | 120. Radial-chaser— |
| 42. Processes, | 121. Adjustable— |
| 33. Nail-plates, | 122. Cam-operated, |
| 34. Processes, | 113. Thread-trimming, |
| 29. Tack-strips, | 123. Die-stocks— |
| 43. Wire nails— | 127. Bushings, |
| 53. Dies, | 125. Hinged, |
| 44. Making and distribut- | 126. Oilers, |
| ing, | 124. Ratchet, |
| 47. Multiple-header— | 89. Machines— |
| 48. Opposite, | 101. Chasing-cutter— |
| 54. Processes, | 102. Rotary, |
| 49. Reciprocating die and | 94. Collapsing-die— |
| header— | 95. Bevel-closing, |
| 50. Toggle-closing dies, | 96. Cam-closing, |
| 51. Wedge-closing dies, | 97. Lever-closing— |
| 52. Rotary work-holder, | 98. Cone, |
| 46. Spiral-shank, | 99. Toggle, |
| 55. String-nails, | 100. Pivoted chaser-car- |
| 55. Wrought nails— | rier, |
| 64. Horseshoe-nails— | 87. Combined, |
| 65. Chain-feed, | 90. Cutting-off and thread- |
| 70. Dies, | ing |
| 71. Processes, | 105. Feeds, |
| 66. Roll-forging— | 106. Lubricators, |
| 67. Traveling-roll, | 91. Multiple-die— |
| 69. Rotary work-holder, | 92. Aligned, |
| 68. Side-swage, | 93. Turret, |
| 56. Spikes— | 103. Recessed cylindrical |
| 62. Blanks, | die-block, |
| 61. Dies, | 104. Screw chaser adjust- |
| 59. Pointing, | ment, |
| 63. Processes, | 107. Work-holders— |
| 57. Reciprocating die | 108. Nipple-chucks, |
| and header, | 152. Swaging— |
| 58. Roller-die, | Reciprocating-die, |
| 60. Rotary work-holder. | 153. Tapping, |
| 72. Nut and washer making— | Implements— |
| 74. Coiling and forging, | 141. Taps— |
| 85. Dies, | 142. Adjustable, |
| 76. Forging— | 146. Built-up, |
| 78. Double punch-drive, | 143. Collapsible— |
| 77. Rotary multiple dies, | 144. Cam-core, |
| 79. Side-swage, | 145. Wedge-core, |
| 80. Side-swage and man- | 140. Combined, |
| drel, | 147. Guides, |
| 73. Lock-washer making, | 148. Tap-wrenches— |
| 81. Nut-broaching, | 149. Axial-screw clamp, |
| 83. Nut-facing— | 150. Ratchet, |
| 84. Arbors, | 151. Transverse-screw |
| 75. Nut finishing and tap- | clamp, |
| ping, | 129. Machines |
| 82. Nut-milling, | 128. Combined reaming |
| 86. Processes, | and tapping, |
| 2. Screw-making— | 133. Double tap-grip, |
| 5. Head-nicking— | 139. Feeds, |
| 7. Punch and die, | 130. Multiple tap-spin- |
| 6. Rotary work-holder, | dle— |
| 3. Head nicking and shav- | 132. Circular-gang, |
| ing, | 131. Tee-threading, |
| 8. Head-shaving, | 134. Releaseable-tap, |
| 9. Pointing, | 136. Reversing mechan- |
| 4. Pointing and threading, | isms |
| 10. Processes, | 137. Bevel-gear, |
| Screw-threading— | 138. Spur-gear, |
| Implements— | 135. Yielding tap-driver, |
| 109. Combined turning and | 154. Thread-milling, |
| threading, | 88. Wooden screws. |

DIVISION XIII.—CONTINUED.

CLASS 77.—BORING AND DRILLING. (XIII.)

(For definitions see Supplement No. 2, p. 2500.)

Subclasses.

- | | |
|-----------------------------|------------------------------|
| 55. Appliances— | Drilling-machines— |
| 56. Boring-bars— | Portable— |
| 57. Feed devices, | Rail-drills— |
| 58. Boring-heads, | Quick-setting, |
| 59. Drill-braces, | Ratchet, |
| 60. Drill-holders, | Post, |
| 62. Jigs, | Radial— |
| 61. Non-circular cut, | Vertically - adjustable |
| 63. Work-supports— | arm, |
| 64. Indexing, | Treadle-feed. |
| Boring-machines— | Drills— |
| 3. Horizontal, | 67. Annular, |
| 1. Miscellaneous, | 69. Combined— |
| 2. Portable, | 65. Drills and countersinks, |
| 4. Vertical, | 68. Oil-conduit, |
| Drilling-machines— | 71. Tange, |
| 31. Angular spindle adjust- | 70. Twist. |
| ment, | 44. Ratchet-drills— |
| 35. Back-gears, | 49. Axially-yielding clutch, |
| 19. Bench, | 50. Band-grip, |
| 18. Center-drills, | 43. Combination, |
| 30. Counterweights, | Double-acting— |
| 32. Feed mechanisms— | 46. Axially-swinging lever, |
| 33. Automatic-stop, | 47. Transversely - swinging |
| 34. Frictional, | lever, |
| 29. Friction-drive, | 54. Feed-screws, |
| 6. Independent motor, | 48. Reversible, |
| 5. Miscellaneous, | 45. Self-feeding, |
| Multiple-spindle— | 51. Sliding-pawl, |
| Axially-opposite, | 52. Wedging-pawl— |
| 22. Parallel axes— | 53. Roller-grip. |
| 23. Circular-gang, | Reamers— |
| 24. Independent adjust- | 75. Adjustable— |
| ment, | Central cone, |
| 26. Radial axes, | 77. Countersinks, |
| 25. Turret, | 73. Pipe-hur, |
| 7. Portable— | 74. Shell. |
| 16. Bow, | Tapping mains— |
| 14. Clamped— | 37. Closed tool-chamber— |
| 12. Chain, | 39. Multiple tool-holder, |
| 17. Drilling and tapping, | 40. Valved— |
| 15. Cord-and-spring drive, | 41. Permanent— |
| 18. Flexible shaft, | 42. Annular cutter. |
| 8. Rail-drills— | |
| Clamp-frames, | |

CLASS 79.—BUTTON-MAKING. (XIII.)

(For definitions see Bulletin No. 15, p. 10.)

Subclasses.

- | | |
|------------------------|----------------------------|
| 17. Blank-feeders. | Pearl and composition— |
| 3. Metallic— | Drilling— |
| 4. Covered— | Single spindle— |
| 5. Cloth, | Single chuck, |
| 1. Miscellaneous, | 7. Surfacing— |
| Pearl and composition— | 9. Multiple chuck, |
| 15. Blank-sawing | 8. Tool-sharpening, |
| 16. Tubular saw, | 10. Trimming, |
| Drilling— | 6. Surfacing and drilling. |
| Multiple spindle— | 2. Shank-buttons. |
| Axially opposite, | 18. Work-supports. |
| 12. Multiple chuck, | |
| 13. Single chuck, | |

CLASS 59. CHAIN, STAPLE, AND HORSESHOE MAKING. (XIII.)

(For definitions see Bulletin No. 19, p. 11.)

Subclasses.

- | | |
|------------------------------|---------------------------|
| 1. Chain-making | Chain-making— |
| 2. Bead chain, | 4. Roller-chain, |
| 27. Bending, | 13. Sheet-metal— |
| 35. Blanks and processes, | Stamping and bending, |
| 10. Combined machines— | 14. Prong-connected, |
| 21. Bending and eye-form- | Sizing and trimming, |
| ing, | 29. Sprocket-chain— |
| 22. Bending and welding, | 5. Blanks and processes, |
| 20. Colling, cutting, assem- | 7. Link-assembling, |
| bling, | 6. Sheet-metal, |
| 17. Colling, cutting, bend- | 20. Swaging and shaping, |
| ing, curbing, | 9. Swivel-making, |
| 23. Cutting and bending— | 31. Welding— |
| Automatic feed— | 33. Dies, |
| 25. Link-assembling, | 24. Holding devices, |
| 18. Feeding, cutting, bend- | 32. Rotary feed, |
| ing, welding, | 10. Weldless— |
| 19. Feeding, cutting, bend- | 12. Blanks and processes, |
| ing, wrapping, | 11. Link separation. |
| 26. Winding and welding, | 78. Chains— |
| 28. Curbing, | 93. Attachments— |
| 3. Loop-interlocked, | 94. Hooks and grabs, |

CLASS 59.—Continued.

- | | |
|----------------------------|------------------------------|
| Chains— | Horseshoe-making— |
| 79. Elastic. | Combined-machines— |
| 84. Links— | Cutting, bending, shap- |
| 85. Detachable— | ing— |
| 87. Double-lap— | 50. Reciprocating die- |
| 88. Pivoted, | block, |
| 89. Pivoted closure, | 51. Rotary die-block, |
| 86. Shackles, | 38. Cutting, bending, shap- |
| 90. One-piece— | ing, punching and |
| 91. Sheet-metal, | creasing— |
| 92. Wrapped and twisted, | 39. Calk and clip bending |
| 89. Ornamental— | and forming, |
| Links, | 40. Reciprocating jaw or |
| 82. Multistrand roller, | die-block— |
| 81. Swivels, | 41. Reciprocating |
| 83. Wire, | punch and creaser, |
| 30. Horseshoe-making— | Rotary die-block— |
| 56. Bending, | 42. Rotary punch and |
| 62. Blanks and bars— | creaser, |
| 63. Rolling— | 55. Shaping, punching, and |
| 64. Processes, | creasing, |
| 65. Calk and clip bending, | 00. Dies and tools, |
| forming, sharpening, | 61. Processes, |
| welding, | 57. Punching and creasing, |
| 66. Calk-making— | 58. Swaging and shaping, |
| 67. Blanks and bars, | 59. Trimming and bur-re- |
| 69. Calks, | moving. |
| 68. Processes, | 96. Key-holders— |
| 37. Combined machines— | 97. Flexible, |
| 52. Bending and shaping— | 98. One-piece, |
| 53. Reciprocating die- | 99. Rotary and sliding clo- |
| block, | sures. |
| 54. Rotary die-block, | 70. Ox-shoe making. |
| 44. Bending, shaping, | 71. Staple-making— |
| punching and creas- | 77. Blanks and processes, |
| ing— | 75. Cutting and bending— |
| 45. Reciprocating jaw or | 76. Rotary former, |
| die-block— | 73. Cutting, bending, barb- |
| 46. Reciprocating | ing, |
| punch and creaser, | 74. Cutting, bending, point- |
| 47. Rotary die-block— | forming, |
| 48. Rotary punch and | 72. Sheet-metal. |
| creaser, | |

CLASS 85.—DRIVEN, HEADED, AND SCREW-THREADED FASTENINGS. (XIII.)

(For definitions see Supplement No. 3, p. 2094.)

Subclasses.

- | | |
|-------------------------------|---------------------------|
| 1. Bolts— | Nails, spikes, and tacks— |
| 2. Expanding-core, | 22. Threaded and indented |
| 24. Expanding-sleeve— | wire. |
| 28. Double wedge, | 32. Nuts— |
| 9. Heads, | 33. Adjustable-thread, |
| 4. Lapped, | 34. Blanks, |
| 3. Pivoted end-lock, | 35. Capped, |
| 5. Threadless— | 36. Threadless, |
| 6. Axial-wedge, | 36.5. Turnbuckles. |
| 7. Key-lock— | 53. Ornamental heads— |
| 8. Bifurcated, | 55. Clip-attached, |
| 10. Nails, spikes, and tacks— | 54. Molded, |
| 21. Barbed and indented, | 56. Screw-attached. |
| 14. Double-ended, | 57. Rivets— |
| 15. Glaziers' points, | 38. Divided, |
| 28. Heads— | 39. Double-clench, |
| 29. Pronged, | 40. Hollow. |
| 12. Horseshoe-nails, | 41. Screws— |
| 23. Locking devices— | 43. Countersinking, |
| 26. Point-spreaders, | 42. Double-ended, |
| 24. Rail-flange, | 44. Drive, |
| 25. Rail-tread, | 45. Driving-contacts, |
| 27. Transverse-key, | 46. Threads— |
| 19. Longitudinally-ribbed, | 47. Interrupted, |
| 13. Multiple-pronged, | 48. Rolled. |
| 30. Points— | 49. Staples. |
| 31. Deflecting, | 50. Washers— |
| 11. Sheet-metal, | 52. Ornamental, |
| 20. Spiral-shank, | 51. Removable. |
| 18. String-nails, | |
| 16. Tacks— | |
| 17. Strips, | |

DIVISION XIII.—CONTINUED.

CLASS 90.—GEAR-CUTTING, MILLING, AND PLANING. (XIII.)

(For definitions see Supplement No. 2, p. 2550.)

Subclasses.

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|-----------------------------------|--------------------------------|
| 1. Gear-cutting— | Planing— |
| 2. Intermeshing generator. | Planers— |
| 8. Reciprocating cutter— | Reciprocating-bed— |
| 10. Templet-guide, | 35. Rack-drive, |
| 9. Tooth-curve generating, | 36. Screw-drive, |
| 3. Rotating cutter— | Reciprocating-cutter— |
| 7. Axially-traveling, | 38. Horizontal— |
| 5. Bevel-gears, | 40. Crank-drive, |
| 6. Blank-pillar and cutter-slide, | 39. Oscillating link drive, |
| 4. Helical gears. | 41. Rack-drive, |
| 56. Indexing— | 42. Screw-drive, |
| 57. Index-heads. | 43. Vertical— |
| 11. Milling— | 44. Crank-drive— |
| 16. Adjustable cutter-axis— | 45. Inverted, |
| 17. Angular, | 46. Rack-drive— |
| Movable cutter-axis— | 47. Inverted, |
| 14. Axial, | 48. Reversing mechanisms, |
| 15. Lateral, | 49. Tool-feeds— |
| 13. Pattern-controller, | 50. Clutch-boxes, |
| 12. Portable— | 51. Stop mechanisms, |
| 12.5. Valve-refitting, | 52. Tool-heads— |
| 18. Stationary cutter-axis— | 55. Cutter-lifters, |
| 20. Rotating work-holder, | 53. Oscillating double cutter, |
| 19. Vertical, | 54. Pivoted cutter release, |
| 23. Tail-stocks, | 25. Soft-metal— |
| 21. Work-feeds— | 26. Cylindrical stereotypes, |
| 22. Backlash-compensators. | 27. Double-rack cutter-drive, |
| 24. Planing— | 28. Roller-feed. |
| 33. Broaching, | 59. Work-holders— |
| Curved surfaces— | 60. Machine-vises— |
| 30. Cycloids, | 61. Angularly-adjustable jaws. |
| 31. Laterally-moving cutter, | 58. Work-tables. |
| Laterally-moving work, | |
| Roll-grooving, | |
| Planers— | |
| 34. Reciprocating-bed— | |
| 37. Cross-rails, | |

CLASS 205.—METAL-DRAWING. (XIII.)

(For definitions see Bulletin No. 6, p. 8.)

Subclasses.

- | | |
|----------------------|----------------------------------|
| 22. Appliances— | Tube-welding— |
| 23. Tags, | 10. Laterally-movable draw-head, |
| 24. Tongs. | 12. Processes. |
| 3. Bars and tubes— | 16. Wire— |
| 7. Backing-mandrel, | 17. Covering— |
| 4. By thrust, | 18. Processes, |
| 5. Hydraulic-drive, | 20. Drawing-drums, |
| 8. Processes, | 19. Lubricating, |
| 6. Screw-drive. | 13. Multiple-die— |
| 25. Die-holders. | 14. Tandem, |
| 26. Dies— | 15. Rotary, |
| 27. Skelping, | 21. Processes. |
| 28. Welding, | 1. Miscellaneous. |
| 29. Wire. | 2. Processes. |
| 9. Tube-welding— | |
| 11. Die and mandrel, | |

CLASS 78.—METAL FORGING AND WELDING. (XIII.)

(For definitions see Bulletin No. 10, p. 4.)

Subclasses.

- | | |
|-----------------------------------|------------------------------|
| 1. Forging— | Forging— |
| 5. Anvils— | Power hammers and presses— |
| 7. Attachments— | 14. Pipe-swaging, |
| 8. Vises, | 34. Revolving-hammer, |
| 6. Special work, | 35. Screw-operated, |
| 3. Anvil-vises— | 15. Shrinkling, |
| 4. Foot, | 36. Sliding-head— |
| 9. Billet-piercing— | 37. Adjustable guides, |
| 10. Fixed mandrel, | 38. Cam-operated, |
| Processes, | 39. Crank-operated— |
| 11. Rotary mandrel or billet, | 40. Cushioned, |
| 60. Dies— | 41. Toggle-operated, |
| 64. Carriage-irons— | 16. Spoke-securing, |
| 85. Axles and axle-boxes, | 19. Traveling, |
| 86. Clips and shackles, | 17. Upsetting, |
| 67. Fifth-wheels, | 81. Processes, |
| 68. King-bolts, | 46. Riveting— |
| 70. Eyebars and eyebolts, | 47. Calking, |
| 72. Leather-workers' irons, | 48. Machines— |
| 68.5. Plow and cultivator irons, | 51. Pipe, |
| 73. Railway-car irons— | 52. Plate-clamping, |
| 74. Axles and axle-boxes, | 53. Rotating-tool, |
| 75. Draw-bars and couplings, | 49. Special, |
| 76. Railway-track irons, | 50. Work-supported, |
| 77. Spinners' and weavers' irons, | 54. Riveted joints, |
| 78. Springs and spring-clips, | 55. Tire-upsetting— |
| 79. Turnbuckles, | 56. Circumferential, |
| 61. Upsetting— | 57. Pivoted-clamp— |
| Heading bars, | 58. Single-lever, |
| 63. Tubular articles, | 59. Sliding-clamp, |
| 80. Wheels, | 45. Toothed articles. |
| 13. Power hammers and presses— | 103. Mandrels. |
| 44. Anvils, | 82. Welding— |
| 43. Cushioned elements, | 92. Processes— |
| 18. Die-inclosed work, | 95. Blooms, |
| 25. Drop— | 93. Dissimilar metals, |
| 26. Cam-lift— | 94. Rings and tubes, |
| Sliding-head, | 90. Rolling, |
| 28. Crank-lift, | 83. Tubes— |
| 29. Friction-lift, | 84. Cross-weld— |
| 30. Winding-lift, | 85. Rolling, |
| 42. Fluid-operated, | 89. End-closing, |
| 20. Hammer-anvil— | 87. Rolling— |
| Cam-operated— | 88. Rolls and mandrel, |
| Adjustable dies, | 86. Spiral-weld, |
| 23. Helved, | 91. Welding strips. |
| 31. Helved, | 96. Work-handling mechanism— |
| 32. Crank-operated, | 99. Blank-feeding, |
| 33. Olivers, | 98. Feeding and rotating, |
| 24. Multiple-hammer, | 100. Shifting, |
| | 101. Supports— |
| | 102. Tables, |
| | 97. Wire or strip feeding. |

CLASS 80.—METAL-ROLLING. (XIII.)

(For definitions see Bulletin No. 5, p. 3.)

Subclasses.

- | | |
|--|-----------------------------------|
| 5. Annular bodies. | Mills— |
| 22. Axial-rolling— | 32. Colling, |
| 23. Pattern-rolls. | 35. Continuous— |
| 42. Cooling-beds. | 36. Inclined trains, |
| 18. Concave and roll. | 37. Loop-return, |
| 3. Cutting and rolling. | 40. Idle rolls, |
| 24. Die-rolling— | 34. Three or more coacting rolls, |
| 29. Advancing and receding rolls, | 39. Three-high, |
| 26. Blank feeding and gaging, | 33. Work-reversing. |
| 27. Continuous, | 1. Miscellaneous. |
| 25. Oscillating rolls, | 19. Platen and roll. |
| 30. Recurrent-pattern, | 20. Platen-rolling— |
| 28. Three or more coacting rolls, | 21. Disk platens. |
| 4. Drawing and rolling. | 60. Processes— |
| 43. Feeding— | 66. Flanged bars, |
| 51. Guides and conductors— | 65. Reworking, |
| 52. Loop-return, | 63. Rods and wires, |
| 53. Work-rotating, | 61. Screw-threads, |
| 44. Tables— | 62. Tubes. |
| 45. Horizontally and vertically movable, | 17. Reworking. |
| 46. Horizontally-movable, | 56. Roll adjustments— |
| 48. Shifters— | 57. Relief devices. |
| 49. Horizontally and vertically movable carrier, | 41. Roll cooling and heating. |
| 50. Swinging carrier, | 58. Rolls— |
| 47. Vertically-movable. | 59. Pass arrangement. |
| 54. Gearing. | 6. Screw-threads— |
| 2. Heating and rolling. | 7. Concave and roll, |
| 55. Housings. | 8. Platen-rolling— |
| Mills— | 9. Dies, |
| 38. Auxiliary supporting-rolls, | 10. Rods and wires. |
| | 11. Tubes— |
| | 13. Axial-rolling, |
| | 12. Idle rolls, |
| | 14. Segmental rolls, |
| | 15. Skelping. |
| | 16. Wheels and disks. |

DIVISION XIII.—CONTINUED.

CLASS 78.—METAL TOOLS AND IMPLEMENTS. MAKING

(XIII.)

(For definitions see Bulletin No. 15, p. 6.)

Subclasses.

101. Blanks and processes—	47. Saw-making—
102. Augers,	48. Dressing and jointing—
103. Axes, hammers, and hatchets,	49. Circular saw,
104. Cutlery—	50. Compressing,
105. Forks and spoons,	51. Rotary tool,
106. Hollow handles,	46. Dressing, jointing, and gaging,
107. Dies,	75. Feeding—
108. Drills,	76. Clamp-feed,
109. Hoes, mattocks, and picks,	77. Tooth-engaging feed,
110. Keys,	81. Gages,
111. Pitchforks and rakes,	74. Guides,
112. Saws,	58. Setting—
113. Shovels,	73. Anvil set,
114. Wrenches,	66. Pivoted set—
82. Cutting sharpeners—	65. Idle,
84. Butchers' steels,	63. Lever-operated—
88. Cutter and guide—	64. Pliers,
89. Disk,	61. Multiple,
Multiple cutter—	62. Trip,
Converging—	59. Rotary set,
86. Disks,	70. Sliding set—
87. Rotary,	68. Idle,
83. Skate.	69. Lever-operated—
90. Dies—	60. Pliers,
91. Augers,	66. Multiple,
92. Axes, hammers, and hatchets,	67. Trip,
93. Cutlery—	60. Screw-operated set,
94. Forks and spoons,	71. Spring set,
95. Drills,	72. Swage set,
96. Hoes, mattocks, and picks,	Sharpening and gumming—
97. Pitchforks and rakes,	30. Die-cutting,
98. Pliers and tongs,	31. Reciprocating tool—
99. Shovels,	34. Clamp-feed,
100. Wrenches.	30. File holders and guides,
12. File-cutting—	32. Gin-saws,
20. Beds and clamps,	35. Tooth-engaging feed,
21. Cutter-heads,	33. Traveling tool-carriage,
22. Feeding—	37. Rotating tool—
23. Screw-operated,	45. Disks and cutters,
17. Idle cutter, hammer-operated—	44. Milling,
18. Blow-controlled,	40. Pivoted gate,
19. Pressers,	42. Pivoted saw-carriage,
24. Processes,	41. Sliding gate,
13. Rasp-punching,	43. Sliding saw-carriage,
14. Swaging,	38. Spiral,
15. Trip-operated cutter—	39. Switch-cam feed,
16. Blow-controlled.	Stretching—
Machines—	26. Hammer,
2. Auger—	27. Roller,
3. Clearing and lip-cutting,	51. Swaging—
11. Blank-splitting,	57. Anvils,
4. Die-forming,	54. Cam-swage,
5. Drill forming and sharpening,	55. Idle swage,
6. Eye-headed tool—	52. Pivoted swage—
7. Ax—	53. Lever-operated,
8. Adjustable header,	56. Sliding swage—
9. Socket, strap, and tang tool,	53. Lever-operated.
10. Wrench.	56. Tools,
1. Miscellaneous.	28. Tooth-forming—
25. Saw-making—	29. Chisel-cutting,
78. Clamps—	29. Die-cutting,
79. Center-supports,	80. Tooth-insertors.

CLASS 29.—METAL-WORKING. (XIII.)

(For definitions see Bulletin No. 15, p. 11.)

Subclasses.

84. Assembling—	150. Blanks and processes—
85. Axle, pin, and collar presses—	150. Gears, pulleys, tires, and wheels,
86. Fluid-operated,	160. Grilles,
87. Spoked wheels,	161. Knobs and knob-shanks,
88. Staking watches and clocks,	162. Lined pipes and tanks,
89. Work-holders.	163. Musical vibrators,
148. Blanks and processes—	164. Railway-car irons—
149. Beams and rails, mechanically capped,	166. Axle-boxes,
150. Braces and brackets,	165. Axles,
151. Bridge-irons,	167. Couplings and draw-bars,
152. Carriage-irons—	168. Wheels,
154. Axle boxes and skains,	169. Railway-track irons,
153. Axes	170. Spinners' and weavers' irons—
155. Columns and girders,	171. Spinning-rings,
156. Ferrules, ring and thimbles,	172. Spring-head clips,
157. Gas and water fittings—	173. Springs,
158. Traps,	174. Spoked wheels,

CLASS 29.—Continued.

175. Blanks and processes—	Machine-chucks and tool-sockets—
176. Turnbuckles,	Cam-closing—
177. Velocipede-irons,	Scroll—
178. Watches and clocks—	128. Conical,
178. Arbors, pinions, and balances,	125. Worm and worm-wheel,
179. Cases, crowns, and pendants,	108. Eccentric,
90. Burnishing.	107.5. Indexed work-grips,
33. Combined machines—	146. Indicators,
57. Attachments,	147. Jaws,
65. Carriage stop mechanisms,	129. Lever-closing—
34. Forging, bending, cutting, and punching,	130. Cone,
35. Forging and rolling,	131. Toggle,
Multiple-tool holder—	139. Longitudinal screw-clamp,
52. Axial tool and transversely-movable slide-rest—	109. Self-aligning,
53. Rotary tool-spindle,	141. Sockets—
51. Laterally-movable stock-holder,	145. Detent,
54. Longitudinally and transversely movable—	142. Multiple,
55. Rotary tool-spindle.	143. Split,
56. Oscillating tool,	144. Wedge,
64. Speed-controllers,	110. Tang-end drive,
58. Stock and blank feeders—	140. Transversely-oscillating jaw,
59. Advancing stock-support,	132. Transverse screw-closing—
60. Magazine,	135. Opposite coupled jaws,
61. Reciprocating gripper—	137. Interlocking,
62. Sleeve,	133. Radial screw-jaw—
63. Roller,	134. Bevel pinion and ring,
Turret—	138. Transverse wedged jaw.
Blank-turret,	86. Metal-breakers.
Multiple turret,	180. Metal stock—
Stock-turret,	181. Compound—
Tool-turret—	182. Bars and tubes,
Cam-operated—	186. Piles and fagots—
Longitudinal turret-axis,	183. Box and scrap,
44. Transverse turret-axis.	184. Parallel bars,
42. Fluid-operated,	185. Tubular,
45. Lever-operated,	Processes—
46. Rack-and-pinion operated,	188. Compound bars and tubes,
40. Rotary tool-holder,	189. Compound plate,
47. Screw-operated,	187. Tube and plate, interlocked joint.
41. Sliding tool-holder,	1. Miscellaneous.
48. Turrets.	91. Reels—
Turret rotating and locking—	92. Coil-stripping,
49. Frictional and positive,	93. Retractable arm,
50. Positive,	94. Revolving collar,
Type of machine—	67. Sawing—
26. Drill-press,	68. Band-saw,
27. Lathe—	69. Circular saw—
Grinding attachment.	70. Multiple,
29. Pulley and wheel.	71. Rim-driven,
30. Planer,	72. Oscillating saw,
31. Vise, drill, etc.—	73. Reciprocating saw—
32. Anvil-attached.	75. Hand-driven,
95. Cutters—	74. Vertical.
96. Inserted blade—	81. Scale removers and preventers.
98. Angular adjustment,	Sharpening—
101. Arc.	82. Edge-serrating,
99. Lateral offset,	83. Swaging.
97. Multiple,	Special work—
100. Vertical offset,	2. Battery-grid making,
106. Lubricators,	3. Buckle-making,
102. Profiled circular blade,	4. Button-fastener making,
103. Rotary—	4.5. Communiting metal,
104. Gang,	5. Cotter-pin making,
105. Inserted tooth.	6. Crank-shaft making,
76. Filing—	7. Eyebolt and hook making,
77. Pie-blank strippers,	8. Finger-ring forming and sizing,
78. Files and rasps—	9. Fish-hook making,
80. Holders,	10. Gem and jewel setting,
79. Sectional.	11. Hinge making and assembling,
107. Machine-chucks and tool-sockets—	12. Lacing-stud making,
111. Bevel-closing—	13. Paper-fastener making,
112. Advancing jaw,	14. Plow and cultivator irons, making,
114. Axial draw-screw,	15. Puddlers' balls, working,
115. Axial thrust-screw,	16. Railway-chair making,
113. Receding jaw,	17. Sheet-metal and foil manufacture—
116. Rotating ring—	18. Processes—
117. Advancing jaw,	19. Pack manipulation,
118. Screw-cap—	20. Spectacle-frame making,
119. Conical,	21. Stereotype-plate finishing,
120. Screw-ring—	22. Tire upsetting, cutting, punching, etc.,
121. Advancing jaw,	23. Toothed-cylinder making,
122. Receding jaw,	23.5. Turbine-blade making,
123. Sliding ring,	24. Type finishing and grooving,
124. Cam-closing—	25. Umbrella-frame making.
125. Scroll—	
127. Bevel pinion and ring,	

DIVISION XIII.—CONTINUED.

CLASS 163.—NEEDLE AND PIN MAKING. (XIII.)

(For definitions see Bulletin No. 6, p. 8.)

Subclasses.

- | | |
|---|---|
| <ul style="list-style-type: none"> 1. Needle-making— 2. Knitting-needles— 3. Tongued, 5. Processes, 4. Rotary blank-carrier. | <ul style="list-style-type: none"> 8. Assorting and packaging needles and pins. 6. Pin-making— 7. Safety-pins. |
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CLASS 82.—TURNING. (XIII.)

(For definitions see Supplement No. 2, p. 2537.)

Subclasses.

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|--|---|
| <ul style="list-style-type: none"> 11. Axial pattern— 12. Pivoted tool-rest, 13. Profiled cutter, 14. Templet-guide. 45. Centerers— 46. Cam-closing, 47. Coupled V-jaws, 48. Hollow-cone, 49. Pivoted lever and cone, 50. Pivoted link. 2. Lathes— 34. Attachments, 32. Beds, 6. Bench, 21. Carriage-feeds— 22. Apron mechanism— 23. Feed-nut controllers, 26. Change-gears, 27. Feed screws and rods, 24. Slide-rests— 25. Multiple tool-support, 33. Centers, 9. Crank and crank-pin— 10. Oscillating work, 28. Head-stocks— 29. Speed-changing gear, 30. Spindles and bearings, 20. Hollow cutter-head, | <ul style="list-style-type: none"> Lathes— 3. Multiple, 4. Portable, 7. Pulley, 5. Screw-cutting— 5.5. Swinging feed-nut and tool-bar, 31. Tail-stocks, 8. Wheel and axle. 1. Miscellaneous. 18. Pattern-section— 19. Cam-controlled cutter. Rests— 36. Tool— 37. Tool-posts, 35. Tool and work, 38. Work— 39. Center-rests. Tapers— 15. Offset work-axis, Transversely-shifted cutter— 16. Gear-controlled, 17. Templet-controlled. 40. Work-drivers— 41. Lathe-dogs— 42. Cam-grip. 43. Mandrels— 44. Expansible. |
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DIVISION XIV.

EXAMINER MAXSON.

CLASSES.—7, Compound Tools; 164, Cutting and Punching Sheets and Bars; 168, Farriery; 153, Metal-Bending; 201, Metal-Ornamenting; 113, Sheet-Metal Ware: Making; 81, Tools; 140, Wire-Working.

CLASS 7.—COMPOUND TOOLS. (xiv.)

(For definitions see Supplement No. 1, p. 2583.)

Subclasses.	
15. Holders—	Type—
16. Pivoted tools.	10. Miner's candlestick,
1. Miscellaneous—	7. Monkey-wrench,
2. Integral.	3. Pliers—
Type—	4. Modified handles—
12. Crowbar,	5. Pivoted auxiliary
14. Fork,	tools,
8. Hammer—	11. Pocket-knife,
9. Fixed-form,	6. Scissors.
13. Handsaw,	

CLASS 164.—CUTTING AND PUNCHING SHEETS AND BARS. (xiv.)

(For definitions see Supplement No. 2, p. 2545.)

Subclasses.	
1. Buttonholes—	Cutting—
3. Knives,	Machines—
2. Machines,	Reciprocating-cutter—
4. Pliers—	Draw-cut—
5. Modified scissors,	55. Separately-oper-
6. Scissors attachments.	ated clamp,
11. Combined machines—	56. Fluid-operated,
13. Die cutting and punch-	59. Gages,
ing,	57. Lever-operated,
14. Pivoted knife-carrier,	50. Notched-work,
15. Reciprocating knife-car-	52. Separately-operated
rier,	clamp,
16. Roller-cutter and punch,	48. Work-feeding—
12. Work-feeding.	49. Roller-feed,
17. Cutting—	60. Rotary-cutter—
18. Die—	63. Curved platework,
29. Dies—	70. Cutters,
31. Adjustable-face,	64. Notched-work,
33. Blank-ejecting,	69. Rotary work-man-
32. Multiple concentric,	drel,
30. Spiral-strip-cutting,	65. Slitters and wind-
19. Machines—	ers,
23. Reciprocating cross-	66. Transverse—
head—	68. Work-feeding—
24. Shifting dies,	67. Printing-press
25. Reciprocating-plun-	attachments,
ger—	61. Work-feeding—
26. Lever-operated,	62. Reciprocating
27. Screw-operated,	feeder,
28. Roller-die,	71. Sweep-cutter—
20. Work-feeding—	72. Elliptical work,
21. Reciprocating	73. Traveling-cutter car-
feeder,	riage—
22. Roller-feed,	74. Motor-driven cut-
Implements—	ter—
80. Pliers,	75. Reciprocating,
82. Sweep,	76. Rotary,
83. Traveling—	77. Roller-knife.
84. Roller-cutter,	Expanded metal—
34. Machines—	6.5. Reciprocating,
35. Band-knife,	6.0. Rolling,
78. Cutting-tables—	7. Fence-barbs—
79. Work-clamping,	8. Cutters and dies—
36. Fixed-cutter—	9. Roller,
37. Spiral-strip,	10. Processes.
38. Work-feeding—	10.5. Printers' leads.
39. Roller-feed,	85. Punching—
40. Oscillating apertured	119. Implements—
cutters,	120. Pivoted handles—
41. Pivoted-cutter—	121. Pliers—
44. Lever-operated—	122. Turret,
46. Compound-lever-	123. Traveling-roller,
age,	86. Machines—
45. Work-clamping,	118. Dies and die-holders,
43. Transverse,	87. Feeding and punch-
42. Work-feeding,	ing—
47. Reciprocating-cutter—	Reciprocating-feed,
Automatic-clamp,	88. Roller-feed,
51. Cutters and bed-	89. Feed mechanisms—
58. blocks,	116. Reciprocating,
100. Draw-cut—	90. Gang—
Automatic-clamp,	91. Lever-operated—
	92. Foot,

CLASS 164—Continued.

Punching—	Punching—
Machines—	Machines—
Gang—	Roller—
93. Pattern,	99. Printing-press at-
94. Hammer,	tachments,
95. Hydraulic,	101. Screw-operated,
96. Lever-operated—	102. Shaft-driven—
97. Foot,	107. Safety devices,
98. Printers' rules,	104. Stop devices—
111. Punch-selector—	105. Shaft-clutch,
112. Keyboard-con-	106. Stroke adjustments,
trolled—	103. Tilting-frame,
113. Electrically-op-	110. Strippers and hold-
erated,	downs,
114. Pattern-con-	109. Tie-band tongue,
trolled—	108. Tube,
115. Electrically-op-	125. Processes,
erated,	124. Punches.

CLASS 168.—FARRIERY. (xiv.)

(For definitions see Bulletin No. 17, p. 36.)

Subclasses.	
29. Calks—	Shoes—
30. Creeper-sections,	17. Fastenings—
31. Removable—	18. Boots,
32. Bolt,	19. Clamped sections,
33. Bolt and lug,	20. Inclined-flange,
34. Clamped,	23. Nails and screws,
35. Dovetailed,	21. Side spurs,
36. Hooked lug and pin,	22. Toe and heel straps,
37. Hooked lug and wedge,	6. Hoof-spreading—
38. Nail-calks,	7. Hinged sections—
Tenoned—	8. Spring,
39. Button-head,	9. Stretching-bar,
40. Cross-pinned,	10. Wedge,
41. Friction,	5. Ox,
42. Screw-threaded,	24. Shape,
43. Wedged.	25. Weights.
1. Overshoes—	26. Sole-pads—
2. Medicating,	28. Elastic,
3. Swamp.	27. Medicating.
44. Shoeing-stands.	45. Tools—
4. Shoes—	46. Calk-sharpeners,
11. Auxiliary tread-plate,	47. Hoof and shoe expanders,
12. Cushioned—	48. Hoof cleaners and trim-
16. Interference-pads,	mers,
13. Soft-tread—	49. Nail-clenchers.
14. Sole-pad,	
15. Spring-heels,	

DIVISION XIV.—CONTINUED.

CLASS 153.—METAL-BENDING. (xiv.)

(For definitions see Supplement No. 1, p. 2603.)

Subclasses.

- | | |
|---|---|
| <ul style="list-style-type: none"> 11. Angular— 12. Combined reciprocating bender and pivoted side-shaper, 13. Combined reciprocating bender and sliding side-shaper, 15. Pivoted bender— 16. Bed-clamped work— 17. Multiple side— 18. Inclosed forms, 19. Rotary, 20. Bender-attached work, 21. Reciprocating bender— 25. Bed-clamped work— 26. Rotary, 27. Rotary bending-head, 22. Inclosed forms, 23. Pan-shaped dies, 24. Screw-operated, 28. Roll— 29. Flanging— 31. Pivoted table, 30. Tinnerns' rolls. 9. Beading and crimping rolls. 1. Binding and covering— 1.5. Shoe-lace tipping. 64. Coiling— 65. Shunt-guide, 66. Spiral die, 67. Traveling guide or mandrel. 2. Combined operations— 3. Angular bending and curving— 4. Pivoted bender— 5. Changeable former, 6. Angular bending and twisting, 7. Curving and corrugating— 8. Hammer-action. 68. Corrugating— 74. Bed and cylinder, 75. Pivoted bender, 76. Reciprocating bender, 77. Roll, 69. Tubes— 69.5. Elbow-bending, 70. Longitudinal bend, 71. Spiral bend— 72. Roll, 73. Transverse bend. | <ul style="list-style-type: none"> 32. Curving or straightening— 62. Boiler-formers, 33. Combined reciprocating bender and pivoted side-shaper, 34. Combined reciprocating bender and sliding side-shaper, 63. Flexible cores, 37. Flier-frame, 39. Pivoted bender— 40. Bender-attached work— 41. Beading and curving, 42. Beading or tube-forming, 43. Traveling bed, 44. Opposing jaws, 45. Sweep-arm— 46. Stationary clamped work, 47. Variable die-face, 48. Reciprocating bender— 50. Automatic bend-detector, 49. Inclosed forms, 52. Laterally-traveling, 53. Screw-operated, 51. Variable die-face, 54. Roll— 56. Angle-bar— 57. Sectional rolls, 58. Barrel-shaped, 59. Edge-curling, 61. Inclosed-work releaser, 55. Hoop, 60. Skewed, 35. Stretching, 38. Three-point jacks, 36. Traveling flexible core. 10. Miscellaneous. Pipe expanders and flangers— 79. Non-traveling— Internal— 80. Segmental expander, Travelling— 81. Rotary— Internal— 82. Wedge-feed. 78. Twisting. |
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CLASS 201.—METAL-ORNAMENTING. (xiv.)

(For definitions see Bulletin No. 13, p. 3.)

Subclasses.

- | | |
|---|--|
| <ul style="list-style-type: none"> 3. Die-pressing— 6. Dies and die-holders, 5. Roller and bed, 4. Roller-die, 1. Miscellaneous. | <ul style="list-style-type: none"> 2. Nurling. Stippling— 7. Reciprocating tool, 8. Rotary tool. |
|---|--|

CLASS 113.—SHEET-METAL WARE. MAKING (xiv.)

(For definitions see Bulletin No. 12, p. 8.)

Subclasses.

- | | |
|---|--|
| <ul style="list-style-type: none"> Bottle-capping— 2. Die— 3. Fillers and forcers, 4. Sectional, 5. Rotary tool, 6. Strap-compressor. 7. Can-making machines— 8. Body-forming and side-seaming— Blank-feeding, 11. Soldering— 9. Blank-feeding, 10. Head-applying— 30. Sectional guide, 31. Head feeding and applying— Body-feeding— 26. Chute, 27. Endless-chain carrier, 28. Rotary drum-carrier, 29. Rotary table-carrier, Head-seaming— 16. Die— 17. Axial rolling, 18. Sectional, 14. Feeding and applying, 15. Rip-seam making, 19. Roller— Rotary chuck— 22. Laterally-rocking tool-holder, 20. Pattern-controlled tool— 21. Automatic clutch, 23. Stationary seaming-tool, Stationary chuck— Rotary seaming-tool— 24. External, 25. Internal, 13. Soldering, 12. Side-seaming. 38. Die-shaping— 43. Combined machines, 42. Cutting— 42.5. Shoe-shank stiffeners, 39. Dental, 49. Dies and die-holders, 46. Drawing, 50. Ejectors, 48. Expanding die, 40. Eyelets, 44. Fillers and forcers, 45. Fluid-operated, 40.5. Lacing-studs, 51. Processes, 47. Roller and concave, 41. Rolling hollow bodies. 1. Miscellaneous. 32. Pens and penholders. 116. Processes. Seaming-machines— Compressing— 57. Die, 58. Roller, 54. Compressing and folding— 55. Roofers' carriages, 56. Roofers' tongs. 59. Soldering— Cans— 81. Cap— 82. Hermetic, Rotary chuck— 83. Flame, endless-chain carrier, 84. Stationary tool— 85. Endless-chain carrier, | <ul style="list-style-type: none"> Soldering— Cans— Cap— Rotary chuck— 86. Rotary table-carrier, 87. Rotary tool— 88. Endless-chain carrier, 89. Rotary table-carrier, Shifting tray, 90. Tipping, 91. Cap-preparing, solder-afixing, and gasket-applying, Head-seam— 67. Axial rolling, 68. Bath, 78. Flame, 79. Rotary chuck— Bath, 69. Endless-chain carrier— Bath, 72. Flame, 73. Soldering-iron, 74. Flams, 70. Rotary table-carrier— Bath, 75. Flame, 76. Soldering-iron, 77. Soldering-iron, 60. Side-seam— Endless-chain carrier— Bath, 61. Soldering-iron, 62. Reciprocating carrier, 63. Rotary table-carrier— Bath, 64. Flame, 65. Soldering-iron, 99. Clamps— 104. Adjustable arms, 103. Expanding mandrel, 102. Pipe, 101. Trough, 100. Vessel, 98. Coolers, Flux-feeders— 95. Liquid, 96. Solid, 92. Heat and pressure, 97. Irons— Capping— 106. Heaters— 107. Electric, 108. Solder-feeding, 109. Processes, 112. Solder-feeders— Liquid, 93. Solid, 110. Solder forms, 111. Tools and appliances, 97. Wipers. 52. Spinning— 53. Carriage-feed, pattern-controlled. 33. Tube-making— 34. Side-seam compressing, 35. Spiral seaming, Transverse seaming— 36. Die, 37. Roller. 113. Work-feeders— 115. Can-body, 114. Cap and head. |
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DIVISION XIV.—CONTINUED.

CLASS 81.—TOOLS. (XIV.)

(For definitions see Supplement No. 4, p. 2969.)

Subclasses.

15. Bending.		Wrenches—
13. Bolt-holders.		Hand-grip—
9. Collar-removers.	78.	Pivoted-jaw—
2. Combined wrenches and pumps or ollers.	79.	Crossed handles—
1. Miscellaneous.	80.	Non-traveling fulcrum—
10. Nut-lock.	81.	Pivoted gripping-piece,
11. Pin-removers—		Sliding gripping-piece,
12. Pliers.	82.	Slotted fulcrum-gulde,
187. Pipe and rod cutters—	83.	Linked jaw and handle,
206. Jaw attachments,	84.	Sliding-jaw—
188. Non-traveling, internal,		Claw-lever and rack,
196. Pivoted	85.	Lever and cam feed,
197. Cam,	86.	Lever and link feed,
198. Handle-jaws,	87.	Lever and pawl feed,
200. Intergear handles,	88.	Handles and shanks,
199. Toggle,	89.	Inserted—
201. Sliding	90.	Expanding,
202. Cam,	91.	Jaw-faces,
203. Head and socket,	92.	Machine—
204. Lever and link,	93.	Bolt-holding—
205. Rack and segment,	94.	Gear-operated,
189. Travelling, external—	95.	Gear-operated,
190. Gear-operated,	96.	Multiple pivoted jaws,
191. Thread-feed—	97.	handle-lever grip,
192. Rotary-handle,	98.	Pivoted inner jaw—
193. Travelling, internal—	99.	Nut or screw fulcrum,
194. Rotary—	100.	Pin-fulcrum—
195. Wedge-feed.	101.	Roller-jaw—
43. Pliers and tongs—	102.	Pinion,
47. Crossed handles—	103.	Spring-pressed,
48. Adjustable-pivot,	104.	Pivoted outer jaw—
50. Parallel jaws,	105.	Fixed fulcrum—
49. Pivoted jaw-piece,	106.	Non-traveling-jaw—
51. Spring-pressed,	107.	Spring-pressed,
44. Expanding.	108.	Traveling-jaw—
52. Jaw attachments,	109.	Nut-fulcrum,
45. Locked jaws,	110.	Rocking-sleeve—
46. Sliding-jaw.	111.	Spring-pressed—
3. Special—	112.	Fulcrum-washer,
4. Engravers' clamps,	113.	Sleeve-inclosed nut,
5. Tweezers,	114.	Traveling fulcrum—
6. Watchmakers'—	115.	Fulcrum tooth and rack,
7. Jewel-setters,	116.	Slotted-guide,
7.5. Mainspring-winders,	117.	Threaded handle-bar—
8. Ruby-pin setters.	118.	Axially-rotating,
13.5. Tube inserters and extractors.	119.	Pivoted slide-jaw—
14. Tweezers.	120.	Bevel-closing—
17. Vises—	121.	Axial nut or screw,
18. Hand,	122.	Rotating-ring,
38. Jaw attachments—	123.	Screw-ring,
39. Round work,	124.	Wedge,
40. Wedge-shaped work,	125.	Rocking-link,
41. Mounts,	126.	Transverse-screw clamp,
32. Nut-operated,	127.	Reversible jaws,
42. Parallel mechanisms,	128.	Rigid jaws—
21. Pivoted jaw	129.	Inclosed—
23. Adjustable-fulcrum—	130.	Watch and clock keys
24. Rack,	131.	Dust-protectors,
25. Cam,	132.	Safety,
22. Wedge-shaped work,	133.	Work-holding,
27. Rack-lock	134.	Round work,
30. Pivoted rack-catch,	135.	Sliding adjustments
31. Sliding rack-catch,	136.	Rack
28. Toothed-nut	137.	Interlocking jaw-handles,
29. Sectional,	138.	Locking set screw or nut,
19. Round work,	139.	Pinion-lock,
33. Screw-operated	140.	Pivoted rack-catch—
36. Displaceable nut or screw,	141.	Cam-seated,
37. Interrupted-thread,	142.	Indirectly-operated,
34. Multiple-intergeared,	143.	Intermediate-fulcrum,
35. Right and left threads,	144.	Non-traveling—
28. Sliding-jaw, cam,	145.	Intermediate-fulcrum,
20. Turret.	146.	Transverse,
53. Wrenches	147.	Shank-engaged cam,
180. Attachments and adjuncts—	148.	Sliding rack-catch—
181. Cutters	149.	Cam-seated,
182. Rotary,		Screw or nut seated,
183. Roller-clutch,		Spring-seated,
184. Shank-embracing,		Spring-seated jaw-frame—
185. Socket-reducers,		Integral frame and teeth,
58. Clutched-head		Wedge-lock—
60. Ratchet—		Wedge-pusher,
61. Pivoted-pawl—		
62. Reversing—		
63. Single,		
59. Segmental,		
77. Double-ended, simultaneous adjustment,		
64. Flexible—		
66. Link—		
67. Claw,		
68. Handle-jaw—		
70. Duplex,		
69. Pivoted,		
65. Threaded adjustment,		

CLASS 81.—Continued.

Wrenches—	Wrenches—
Sliding adjustments—	Sliding adjustments—
Shank-grip—	Thread—
150. Clutch-yoke,	Non-traveling screw—
152. Locking incline,	172. Shank-sleeved,
153. Roller-clutch,	163. Right and left threads,
151. Side-jaw,	164. Rotating threaded shank,
155. Thread—	165. Sliding side-jaw,
156. Displaceable half-nut,	173. Traveling-nut—
157. Displaceable nut or screw—	174. Threaded handle-bar,
158. Traveling-screw, shank-rack,	175. Traveling-screw—
159. Interrupted—	176. Shank-rack,
160. Nut-set—	177. Sliding-jaw, cam-closing,
161. Traveling-nut,	178. Sliding-jaw face,
162. Traveling-screw, shank-rack,	179. Sliding-jaw, handle-lever grip—
Non-traveling nut—	180. Claw,
Intermediate—	181. Spanners,
166. Sliding outer-jaw,	182. Crank arm,
167. Terminal—	183. Wheel-operated—
168. Sliding outer-jaw,	184. Hub-rim grasp—
169. Non-traveling screw—	185. Internal.
170. Bracket-bearing,	
171.	

CLASS 140.—WIRE-WORKING. (XIV.)

Subclasses.

31. Attaching card-clothing.	Fabrics—
1. Barbing.	Working.
12. Sheet-metal,	21. Feeding and tension.
22. Tools.	13. Heddles, making.
3. Bending.	14. Joining.
4. Bending and colling.	15. Reels and spools.
5. Bending and twisting.	16. Tools.
6. Colling.	24. Winding.
26. By mandrel, definite length,	Wiring
27. By mandrel, indefinite length,	17. Bottles and corks,
25. By rolls.	18. Brushes and cards,
8. Cutting and straightening.	19. Wood—
9. Fabric	11. Fences—
10. Making	28. Gear,
32. Coiled,	29. Rack-bar,
33. Twisted,	30. Sprocket,
	23. Fencing.

DIVISION XV.

EXAMINER STAUFFER.

CLASSES.—107, Bread, Pastry, and Confection Making; 91, Coating; 44, Fuel; 49, Glass; 222, Hydraulic Cement and Lime; 154, Laminated Sheets and Fabrics; 92, Paper-Making; 94, Paving; 95, Photography; 25, Plastic Block and Earthenware Apparatus; 106, Plastic Compositions; 18, Plastics.

CLASS 107.—BREAD, PASTRY, AND CONFECTION MAKING. (xv.)

(For definitions see Bulletin No. 12, p. 3.)

Subclasses.

- | | |
|-------------------------------|---------------------------------|
| 55. Bakers' ovens— | 50. Implements— |
| 64. Attachments, | 7. Miscellaneous. |
| 67. Bakers' peel, | 30. Mixers, kneaders, and beat- |
| 56. Charging and removing | ers— |
| devices— | 31. Aerating, |
| 57. Endless-carrier— | 32. Moving-receptacle— |
| 58. Automatic pans or | 33. Rotating, |
| forms, | 34. Roller, |
| 59. Reel, | 35. Rotary-dasher— |
| 60. Rotary-hearth, | 36. Compound-rotation, |
| 65. Doors, | 37. Multiple— |
| 63. Fluid-circuit or indirect | 38. Hand-supported, |
| heating, | 39. Single— |
| 66. Forming and baking | 40. Hand-supported, |
| plates, | 41. Horizontal, |
| 62. Knockdown or separable, | 39. Oscillating, |
| 61. Wagon-ovens. | 42. Single reciprocating- |
| 44. Cleaning apparatus. | dasher. |
| 4. Combined machines— | 8. Molding apparatus— |
| 6. Cutting and distributing, | 14. Die-expressing, |
| 5. Printing and cutting loz- | 9. Loaf-forming, |
| enges. | 19. Molds, |
| 1. Composite cake and confec- | 15. Presses— |
| tion apparatus. | 16. Popcorn, |
| 20. Cutting apparatus— | 17. Tablet— |
| 21. Knife— | 18. Stationary-mold, |
| 22. Circular, | 10. Rolling— |
| 24. Reciprocating-die— | 13. Axial, |
| 25. Dough-feeding, | 11. Pills, |
| 26. Internal plunger, | 12. Sheeting. |
| 23. Rotary-die. | 46. Pastry-boards. |
| 27. Depositing apparatus— | 54. Processes. |
| 28. Valve cut-off— | 2. Shredded cereal biscuit ap- |
| 29. Transversely-recipro- | paratus. |
| cating. | 43. Sizing and salting appara- |
| 47. Implements— | tus. |
| 51. Cutters, | 45. Stacking and packing appa- |
| 52. Depositors, | ratus. |
| 48. Ice-cream dishers, | 3. Starch-molding apparatus. |
| 53. Mixers, kneaders, and | |
| beaters, | |
| 49. Pie crimpers and trim- | |
| mers, | |

CLASS 91.—Continued.

Machines—

43. Fountain—
44. Projection—
45. Air-brush,
29. Fountain and roller,
30. Fountain and scraper,
23. Fountain, roller, and web,
46. Immersion,
31. Immersion and roller,
32. Immersion and scraper,
24. Immersion, roller, and
- scraper,
47. Impression,
48. Roller—
49. Fountain-feed,
50. Roller-feed,
51. Tank-feed,
33. Roller and scraper,
34. Roller and web,
52. Rumble,
53. Scraper,
35. Scraper and web,
54. Web.
57. Mixers and stirrers.
68. Processes—
69. Photographic film and
- plate,

Processes—

70. With heat—
71. Japanning,
72. Vitreous—
73. On metal.
- Special machines—
1. Bordering letter-paper,
2. Confections and pills—
3. Fountain,
4. Immersion—
5. Chargers,
6. Dipping implements,
7. Rumble,
8. Flocking,
9. Marbling,
10. Photographic film and
- plate,
11. Pitching casks,
12. Striping.
58. Strippers.
59. Wipers and dusters.
60. Work-holders—
61. Enameling-tables,
62. Gripper mechanisms.

CLASS 44.—FUEL. (xv.)

Subclasses.

- | | |
|-------------------|--------------------|
| 1. Artificial. | 3. Peat-machines. |
| 2. Fire-kindlers— | 4. Purifying coal. |
| 5. Absorbers, | |
| 6. Automatic. | |

CLASS 91.—COATING. (xv.)

(For definitions see Bulletin No. 13, p. 9.)

Subclasses.

- | | |
|------------------------------|---------------------------|
| 13. Combined machines— | Machines— |
| 14. Coating and cutting, | Brush— |
| 15. Coating and folding, | 39. Fountain-feed, |
| 16. Coating and printing, | 40. Roller-feed, |
| 17. Coating and stretching. | 41. Tank-feed, |
| 55. Driers and coolers. | 25. Brush and fountain, |
| 56. Elevating devices. | 19. Brush, fountain, and |
| Implements— | roller, |
| 63. Brush holders and clean- | 20. Brush, fountain, and |
| ers, | scraper, |
| 64. Painters' hooks, | 26. Brush and immersion, |
| 65. Paint-protectors, | 21. Brush, immersion, and |
| 66. Pots, | roller, |
| 67. Sanders. | 22. Brush, immersion, and |
| 18. Machines— | scraper, |
| 36. Abrasion, | 27. Brush and roller, |
| 37. Brush— | 28. Brush and web, |
| 38. Capillary feed, | 42. Centrifugal, |

DIVISION XV.—CONTINUED.

CLASS 49.—GLASS. (xv.)

(For definitions see Bulletin No. 13, p. 4.)

Subclasses.

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|---|---|
| <ul style="list-style-type: none"> 45. Annealing— 46. Furnaces— 47. Conveying. 63. Batch-mixers. 18. Blowing— 20. Manipulating blow-iron, 21. Tools. 19. Traveling mold. 1. Combined machines— 12. Casting and blowing— 13. In separate molds, 5. Charging, cutting, and molding, 2. Incandescent-lamp making, 8. Pressing and blowing— 11. Descending mold - bottom, 9. In separate molds— 10. Internal press-mold, 7. Reheating and reshaping, 6. Shaping and cutting, 3. Sheet and plate making— 4. Flattening and annealing. 90. Compositions— 91. Enamel. 48. Cutting hard glass— 51. Guides and gages, 50. Heat-applying, 49. Lens-blanks, 52. Tools. 17. Drawing. 44. Flattening. 62. Gathering and lading. 53. Heating apparatus— 61. Floats, 60. Melting-pots, 59. Pot-furnaces, 57. Reheating-furnaces— 58. Work-manipulating, 54. Tank-furnaces— 55. Delivering, 56. Separate gathering-pool. 14. Miscellaneous— 15. Tools. 40. Mold-coolers. 29. Molding— 39. Casting, | <ul style="list-style-type: none"> Molding— 30. Curved pipes and tubes, 35. Presses— 38. Fluid-operated, 36. Screw-threading, 37. Traveling mold, 33. Rolling— 34. Bed and roller, 31. Vertical pipes and tubes, 32. Wire-glass. 65. Molds— 67. Bending, 69. Blowing— 70. Labeling, 71. Vented, 75. Clamping, 68. Cooling and heating, 76. Cores and plungers, 72. Pressing— 74. Helically-separable, 73. Laterally-separable sides, 66. Uniting parts. 42. Mold-separating devices— 43. Drawing-core. 41. Mold supports and carriers. 28. Perforating. 16. Pin-heading. 77. Processes— 59. Annealing, 83. Blowing, 79. Combined— 80. Molding and blowing, 88. Heat-developed coloring, 78. Incandescent-lamp making, 85. Molding— 87. Sheets and plates, 86. Wire-glass, 84. Reshaping, 81. Uniting parts— 82. Glass to glass. 22. Reshaping— 26. Crimping, 24. Neck-forming— 23. Tools 25. Divided mandrel, 27. Spreading or flaring, 64. Snaps and sockets. 92. Structure. |
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CLASS 222.—HYDRAULIC CEMENT AND LIME. (xv.)

Subclasses.

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|--|--|
| <ul style="list-style-type: none"> 3. Kilns— 5. Attachments, 6. Gypsum, | <ul style="list-style-type: none"> Kilns— 7. Rotary. 4. Lime. |
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CLASS 154.—LAMINATED SHEETS AND FABRICS. (xv.)

Subclasses.

- | | |
|---|---|
| <ul style="list-style-type: none"> 1. Apparatus— 5. Tube and tire making. 4. Boiler-coverings. 3. Felt. 9. Linoleum. | <ul style="list-style-type: none"> 2. Miscellaneous. 6. Processes— 7. Playing-ball making, 8. Tube and tire making. |
|---|---|

CLASS 92.—PAPER-MAKING. (xv.)

Subclasses.

- | | |
|---|---|
| <ul style="list-style-type: none"> Calenders— 25. Bed and jack, 26. Damping devices, 27. Rotary. 24. Carpet-lining. 6. Disintegrating fibrous substances. 7. Fabrics. 8. Fibers. 12. Ornamenting. 13. Paper-board. 15. Paper-making machines— 28. Attachments, 29. Couch-rolls, 30. Cylinder-machines, 31. Dandy-rolls, 32. Felt and wire cleaners, 34. Fourdrinier machines, 35. Press rolls and felts, 56. Reels, 36. Stuff-chests, 37. Stuff-feeders, 38. Suction boxes and rolls. | <ul style="list-style-type: none"> 16. Parchment. Pulp-making— 51. Beating-engines, 48. Bleaching, 50. Chemical processes, 49. Digesters, 39. Drainers, 52. Rag-cutters, 53. Refining-engines, 44. Stock-cleaners, Strainers— 40. Rotary, 41. Shaking, 42. Stationary, 43. Washers, 54. Wood-grinders. Pulp-molding machines— 45. Centrifugal, 46. Compressors, 47. Winders. 22. Waterproofing and sizing. |
|---|---|

CLASS 94.—PAVING. (xv.)

Subclasses.

- | | |
|--|---|
| <ul style="list-style-type: none"> 2. Gutters. 9. Mixers. Pavements— 1. Concrete, 3. Iron, 5. Stone, | <ul style="list-style-type: none"> Pavements— 8. Wood. 4. Road-rammers. 6. Tools. 7. Vault-covers. |
|--|---|

CLASS 95.—PHOTOGRAPHY. (xv.)

(For definitions see Bulletin No. 5, p. 10.)

Subclasses.

- | | |
|--|---|
| <ul style="list-style-type: none"> 10. Actinometers. 83. Backgrounds— 84. Rolling curtain. 104. Burnishing— 105. Rotary machines— 106. Internally-heated. 11. Cameras— 12. Combination, 43. Copying and enlarging, 13. Developing— 14. Automatic, 42. Exposure-lens finder, 52. Finders, 44. Focusing— 45. Adjusting mechanism, 46. Guides and locks, 47. Hoods, 39. Folding— 40. Hinged-base, 49. Ground glasses and frames, 19. Magazine— 22. Flexible plate-carrier, 20. Hand-changed plate, 27. Quarter-turned plate— Tilting— 29. Base-guides, 30. Rear-plate replacing, 23. Sliding-plate— 25. Continuous guides, 26. Intermediate exposure-chamber, 24. Sliding and return, 21. Tilting-magazine, 15. Panoramic— 16. Concave surface, 17. Convex surface, 66. Plate-holders— 72. Auxiliary, 71. Closure locks and checks, 67. Light-seals, 68. Plate-fastenings and kits— 69. Adjustable, 70. Solution drains and resistants, 41. Plate-holder storage 48. Reversible-back, 31. Roll-holding— 32. Folding— 33. Hinged bellows, 34. Posterior rolls, 35. Roll-spools, 51. Shift front or back, 53. Shutters— 57. Curtain, 64. Diaphragms, 54. Fluid-operating mechanisms, Pivoted— 58. Blade— 59. Blade and cover blind, 60. | <ul style="list-style-type: none"> Cameras— Shutters— Pivoted— Blade— 62. Opposite movement— 63. Symmetrical opening, 61. Rotary, 55. Sliding— 56. Opposite movement, 18. Simultaneous-exposure, 36. Successive plate-sections— 37. Shifting lens or plate— 38. Rotary, 50. Swing front or back, 65. Vignettors. 96. Camera-supports— 87. Copy-holding. 2. Color. 3. Daguerreotypy— 4. Vises. 88. Developing. 89. Fluid-treating apparatus— 90. Dark cabinets— 91. Hand-insertion— 92. Ventilated, 90.5. Roll-film, 94. Film-guides, 99. Rocking mechanisms, 93. Rotating carriers, 96. Tanks— 97. Washing— 98. Plate-supporting, 95. Trays, 100. Work-handling devices. 1. Miscellaneous. 85. Models. 93. Printing— 75. Continuous-film, 76. Fluid-pressure contact, 77. Frames— 77.5. Cylindrical, 78. Stands, 74. Superposed negative, 79. Vignetting— 80. Frame-attaching mechanisms. 5. Processes— 5.5. Vitreous colors. 101. Retouching— 102. Stands— 103. Vibrating. 81. Screens. 7. Sensitizing. 6. Sensitizing and developing. 82. Studios. 8. Surfaces— 9. Films. |
|--|---|

DIVISION XV.—CONTINUED.

CLASS 25.—PLASTIC BLOCK AND EARTHENWARE APPARATUS. (xy.)

(For definitions see Bulletin No. 7, p. 3.)

Subclasses.

- | | | | |
|------|-------------------------|--------|--------------------------|
| 41. | Block-molding machines— | 11. | Die-expressing— |
| 42. | Flat tile, | 12. | Detached block, |
| 43. | Roofing-tile, | 17. | Dies— |
| 44. | Undercutting. | 18. | Liquid-lubricated, |
| 45. | Block-presses— | 20. | Perforating and orna- |
| 103. | Chargers, | | menting, |
| | Endless chain of molds— | 19. | Steam-lubricated, |
| 99. | Continuous travel, | 15. | Plunger-ejector— |
| 100. | Intermittent travel, | 16. | Fluid-operated, |
| 101. | Expanding mold, | 13. | Pottery, |
| 102. | Plungers, | 14. | Screw-ejector. |
| | Portable mold— | 3. | Electrical-fixture ma- |
| | Mold-pushers, | | chines. |
| 53. | Movable support— | 132. | Kilns— |
| | Toward feed, | 140. | Combined up and down |
| 46. | Transverse to feed, | | draft— |
| 47. | Supported in race— | 141. | Reversible, |
| 48. | Plunger— | 134. | Continuous— |
| 49. | Lever, | 139. | Common flue, |
| 50. | Pitman, | 136. | Perforated floor, |
| 51. | Rack and pinion, | 137. | Perforated partition, |
| 52. | Reciprocating mold— | 135. | Separate kiln, |
| 54. | Fluid-operated, | 138. | Temporary partition, |
| 55. | Plunger— | 145. | Downdraft— |
| | In line of mold | 146. | Muffle-bottom, |
| | travel— | 149. | Fluid-fuel, |
| 57. | Cam, | 148. | Forced-draft, |
| 58. | Drop, | 151. | Furnaces— |
| 59. | Lever, | 152. | Grates, |
| 60. | Transverse to mold | 142. | Horizontally-traveling |
| | travel— | | material, |
| 61. | Cam, | 133. | Indurating, |
| 62. | Lever, | 144. | Muffle, |
| | Rotary mold— | 154. | Processes— |
| | Facial— | 155. | Burning road-ballast, |
| 64. | Continuous— | 153. | Saggers, |
| 65. | Plunger, cam, | 150. | Steam-combustion, |
| 66. | Intermittent— | 147. | Updraft, |
| 67. | Opposed plunger— | 143. | Vertically-traveling ma- |
| 68. | Lever, | | terial. |
| 69. | Single-surface | 4. | Knob-machines. |
| | plunger— | 1. | Miscellaneous. |
| 70. | Cam, | 118. | Molds— |
| 71. | Drop, | 119. | Block— |
| 72. | Lever, | 120. | Ejectors, |
| 73. | Pitman, | 121. | Expanding and sepa- |
| 74. | Toggle, | | rable, |
| 63. | Fluid-operated, | 122. | Linings, |
| | Peripheral— | 123. | Ornamental, |
| 75. | Continuous— | 131.5. | Centering, |
| 76. | Opposed mold- | 124. | Cistern, |
| | wheel— | 125. | Fence, |
| 77. | Mating, | 126. | Pipe— |
| 78. | Plunger, cam, | 128. | Cores, |
| 79. | Pressure-roller, | 127. | Expanding and sepa- |
| 80. | Intermittent— | | rable, |
| 81. | Plunger, cam, | 129. | Pottery, |
| 82. | Plunger, lever, | 130. | Sarcophagi and tank, |
| | Stationary mold— | 131. | Wall. |
| 83. | Single-surface plun- | 30. | Pipe-machines— |
| | ger— | 36. | Compacting-former, |
| 85. | Cam, | 31. | Fluid-operated, |
| 86. | Drop, | 32. | In situ, |
| 84. | Fluid-operated, | 33. | Multitubular— |
| 87. | Lever, | 34. | Perforators, |
| 88. | Pitman, | 35. | Perforating-former, |
| 89. | Toggle, | 38. | Plastic lining and coat- |
| 90. | Opposed plunger— | | ing, |
| 92. | Cam, | 39. | Socket-formers, |
| 93. | Cam and lever, | 37. | Tamper, |
| 94. | Cam and pitman, | 40. | Turners. |
| 91. | Fluid-operated, | 5. | Playing-marble machines. |
| 95. | Lever, | 22. | Pottery-machines— |
| 96. | Pitman, | | Casting, |
| 97. | Toggle, | 23. | Fluid-operated, |
| 98. | Toggle and connect- | 24. | Jiggers— |
| | ing-bar, | 25. | Irregular form, |
| 104. | Strikes and trimmers. | 26. | Rotary former, |
| 2. | Brick-making plants. | 27. | Presses— |
| 105. | Cutters— | | Bottom ejectors, |
| 114. | Cleaners, | 21. | Roller-forming. |
| 111. | Oscillating, | 115. | Sanders— |
| 107. | Reciprocating— | 116. | Mold— |
| 108. | Horizontally, | 117. | Rotary drum. |
| | Rotating— | 7. | Soap-molding devices— |
| 109. | Longitudinal axis, | 8. | Die-expressing, |
| 110. | Transverse axis, | 9. | Rotary mold, |
| 106. | Soap, | 10. | Stationary mold. |
| 112. | Stationary, | 6. | Tobacco-pipe machines. |
| 113. | Tables. | | |

CLASS 106.—PLASTIC COMPOSITIONS. (xv.)

(For definitions see Bulletin No. 7, p. 8.)

Subclasses.

- | | |
|---------------------------------------|---------------------------------------|
| 22. Artificial ivory and hard rubber. | 12. Electrical insulating— |
| 23. Artificial rubber. | 15. Bituminous and resinous— |
| 24. Artificial stone— | 16. Tar, |
| 35. Argillaceous, | 17. Wax, |
| 31. Bituminous and resinous— | 13. Rubber, |
| 32. Tar, | 14. Soluble silicates. |
| 33. Wax, | 9. Fire-brick and refractory linings— |
| 36. Gelatinous and gummy, | 10. Argillaceous. |
| Hydraulic cement— | 11. Fire-hardened— |
| 26. Argillaceous, | 42. Treatment. |
| 43. Treatment, | 7. Floor-cloth. |
| 27. Indurating— | 39. Gelatinous and gummy. |
| 45. Treatment, | 18. Heat-insulating— |
| 29. Oxychlorid and oxysulfate. | 21. Argillaceous, |
| 34. Plaster-of-paris, | 20. Plaster-of-paris, |
| 28. Retarders. | 19. Soluble silicates. |
| 30. Soluble silicates, | 8. Luting. |
| 44. Treatment. | 1. Miscellaneous— |
| 2. Battery-jars. | 41. Treatment. |
| 3. Boot heels and soles. | 38. Proteids— |
| 4. Cob pipes and fillings. | 47. Treatment. |
| 5. Crayons and pencils. | 37. Pyroxylin. |
| 6. Dental. | 40. Viscose and cellulose. |

CLASS 18.—PLASTICS. (xv.)

(For definitions see Bulletin No. 10, p. 7.)

Subclasses.

- | | |
|-----------------------------|---------------------------|
| 1. Miscellaneous apparatus— | Molding devices— |
| 3. Pyroxylin, | Molds |
| 2. Vulcanizable gums. | 35. Sheet-shaping, |
| 5. Molding devices— | 42. Two and three part, |
| 26. Casting— | 51. Mold wiping and coat- |
| 27. Candles, | 16. Presses— |
| 28. Crayons, | 17. Heating and vulcan- |
| 29. Rollers, | 18. Tire-repairing, |
| 30. Chargers, | 22. Reciprocating-mold, |
| 12. Die-expressing— | 20. Rotary mold-sup- |
| 13. Compound, | 21. port— |
| 14. Tube and hollow, | 19. Peripheral, |
| 24. Dipping— | 23. Sheet-shaping, |
| 25. Capsule-machines, | 9. Stationary-mold, |
| 8. Filament-forming, | 9. Rolling— |
| 15. Film-spreading, | 11. Compound, |
| 32. Flasks and clamps— | 10. Sheets. |
| 33. Dental, | 4. Molding plants. |
| 6. Heating and vulcaniz- | Processes— |
| 7. ing— | 54. Filament-forming, |
| 34. Pots, | 48. Miscellaneous— |
| 36. Molds— | 51. Pyroxylin, |
| Blank covering and fill- | 49. Vulcanizable gums— |
| ing— | 50. Caoutchouc, |
| 37. Lacing hooks and | Molding— |
| studs, | 55. Casting and dipping, |
| 39. Casting— | 58. Film-spreading, |
| 40. Soap, | 57. Sheets, |
| 43. Clamping, | 56. Uniting, |
| 45. Cores— | 59. Restoring caoutchouc, |
| 46. Boot trees and lasts, | 52. Vulcanizing caout- |
| 44. Dies and matrices, | 53. chouc. |
| 41. Dipping, | 3.5. Puttying devices. |
| 38. Heating and vulcaniz- | |
| ing, | |
| 47. Materials, | |

DIVISION XVI.

EXAMINER W. A. KINNAN.

CLASSES.—178, Telegraphy; 179, Telephony.

CLASS 178.—TELEGRAPHY. (XVI.)

Subclasses.

- | | |
|-----------------------------|-----------------------------|
| 3. Annunciators— | Telegraphs— |
| 188. Drop, | 45. Circuits and systems, |
| 189. Drop systems, | 299. Details, |
| 190. Elevator, | 47. Dial, |
| 320. Extension or auxiliary | 48. Duplex, |
| bell-circuits, | 49. Dynamo, |
| 321. Reed, | 50. Fire— |
| 191. Step-by-step— | 160. Automatic, |
| 322. Clock-train, | 162. Engine-house appara- |
| 323. Strength and polarity. | tus, |
| 12. Condensers. | 163. Non-interfering, |
| 28. Indicators. | 165. Repeaters, |
| 29. Keys. | 164. Variable signal— |
| 35. Morse registers. | 161. Dial, |
| 304. Relays— | 103. Fire alarms and extin- |
| 305. Coil, | gishers, |
| 306. Core-armature. | 51. Multiplex, |
| 42. Repeaters. | 52. Perforating, |
| 307. Sounders. | 54. Printing— |
| 300. Superposed current. | 141. Multiple-wheel, |
| Telegraphs— | 142. Wheel, |
| 297. Autographic, | 55. Quadriplex, |
| 46. Automatic— | 63. Reed. |
| 298. Multiple-pen, | 69. Transmitters. |
| 310. Successive-line, | 319. Wireless. |

CLASS 179.—TELEPHONY. (XVI.)

(For definitions see Bulletin No. 16, p. 12.)

Subclasses.

- | | |
|-------------------------------|---------------------------|
| 174. Anti-induction devices. | Switchboards— |
| 178. Details— | 96. Spring-jack— |
| 179. Casings, | 97. Strips, |
| 180. Dampers, | 99. Substation, |
| 181. Diaphragms, | 98. Wire distribution. |
| 182. Earpieces, | 158. Switches— |
| 183. Hoods, | 159. Hook— |
| 189. Locks, | 166. Connectors, |
| 187. Mouthpieces— | 184. Gravity-lever, |
| 188. Voice-screens, | 163. Horizontal slide, |
| 185. Protectors— | 161. Obstruction— |
| 186. Antiseptic, | 162. Movable jaw, |
| 188. Connections, | 160. Selective line, |
| 190. Resistance elements. | 165. Vertical slide, |
| 172. Induction-coils— | 168. Mobile, |
| 173. Multiple. | 167. Receiver, |
| 176. Listening and ringing | 169. Rotary contact. |
| keys— | 1. Systems— |
| 177. Polystation-lines. | 78. Anti-inductive— |
| 171. Relays. | 79. Condenser, |
| 170. Repeaters. | 80. Impedance, |
| 100. Sets. | 16. Automatic— |
| 146. Supports— | 26. Auxiliary automatic |
| 157. Body, | exchange, |
| 156. Head-gear, | 23. Central energy, |
| 153. Holder, transmitter-sup- | 24. Combined rotary and |
| ported, | non-rotary, |
| 149. Pivoted-arm— | 19. Lock-out— |
| 150. Extension, | 20. Central energy, |
| 151. Slidable holders, | 21. Combined rotary and |
| 152. Transmitter, | non-rotary, |
| 147. Stands, | 22. Non-rotary, |
| 154. Suspension— | 25. Non-rotary, |
| 155. Reels, | 18. Percentage, |
| 148. Vertical adjustment. | 17. Polystation-lines, |
| 81. Switchboards— | 27.5. Selective switches, |
| 92. Drop-restorers, | 27. Semi-automatic, |
| 94. Lamp-annunciators, | 84. Call— |
| 95. Plug-seats, switches, and | 88. Automatic, |
| take-ups, | 87. Reed, |
| 93. Plug-shifters, | 89. Return, |

CLASS 179.—Continued.

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|----------------------------|----------------------------|
| Systems— | Systems— |
| Call— | Polystation-lines— |
| 85. Step-by-step, | 30. Lock-out— |
| 86. Strength and polarity, | 33. Central, |
| 90. Transmitters, | 31. Centralized energy— |
| 51. Central— | 32. Central, |
| 70. Centralized energy— | 29. Portable sets, |
| 71. Line-signal control— | 7. Register— |
| 72. Spring-jack cut-off, | 11. Automatic— |
| 73. Relay cut-off, | 12. Central control, |
| 74. Line-signal control— | 8. Central— |
| 75. Spring-jack cut-off, | 9. Automatic— |
| 76. Relay cut-off, | 10. Central control, |
| 52. Multiple answering- | 13. Central control, |
| jack, | 14. Key and lock, |
| 53. Multiple switch- | 82. Space— |
| board— | 83. Radiophones, |
| 54. Auxiliary, | 81. Substation-circuits. |
| 55. Centralized energy— | 101. Telephones— |
| 56. Line-signal con- | 107. Audiphones, |
| trol— | 102. Combined receiver and |
| 57. Spring-jack cut- | transmitter— |
| off, | 103. Hand, |
| 58. Relay cut-off, | 105. Compound |
| 67. Line-signal control— | 106. Condenser, |
| 68. Spring-jack cut-off, | 111. Electrostatic, |
| 69. Relay cut-off, | 112. Induction-coil, |
| 59. Plug-terminal— | 108. Intensifiers— |
| 60. Line-signal con- | 109. Harmonic vibrators, |
| trol— | 114. Magnetic— |
| 61. Spring-jack cut- | 115. Diaphragm— |
| off, | 116. Multiple, |
| 62. Special test-plug, | 117. Magnets— |
| 63. Special test-plug— | 118. Combined telephone |
| 64. Line-signal con- | and call, |
| trol— | 119. Pole-pieces, |
| 65. Spring-jack cut- | 120. Tubular, |
| off, | 104. Micromagnetic, |
| 66. Relay cut-off, | 110. Molecular, |
| Centralized energy, | 113. Non-diaphragm. |
| 6. Combined telephone and | 175. Testing devices. |
| phonograph, | 121. Transmitters— |
| 2. Composite— | 138. Diaphragm— |
| 3. Telegraphy— | 139. Multiple, |
| 4. Metallic circuit, | 140. Electrode— |
| 5. Fire or police, | 141. Contact— |
| 41. Divided central— | 142. Gravity— |
| 44. Automatic ringing, | 143. Hinged or pivoted, |
| 50. Centralized energy. | 144. Magnetic, |
| 48. Multiple switch- | 145. Spring, |
| board— | 122. Granular— |
| 49. Centralized energy, | 124. Electrode— |
| 42. Private branch ex- | 125. Embedded, |
| change, | 126. Plunger, |
| 43. Reciprocal signaling- | 127. Pockets, |
| trunks, | 128. Projections, |
| 45. Through-ringing— | 129. Rotary, |
| Centralized energy, | 130. Granules magnetic, |
| 46. Multiple switch- | 123. Multiple diaphragm, |
| board, | 131. Multiple electrode— |
| 37. House or intercommuni- | 135. Differential, |
| cating— | 133. Fluid— |
| 40. Centralized energy, | 134. Jet, |
| 38. Lock-out— | 137. Multiple contact, |
| 39. Central energy, | 132. Multiple diaphragm, |
| 15. Multiplex, | 136. Multiple series con- |
| 28. Polystation-lines— | tact. |
| 36. Central, | |
| 34. Centralized energy— | |
| 35. Central, | |

DIVISION XVII.

EXAMINER HENRY.

CLASSES.—192, Clutches; 199, Linotyping; 198, Matrix-Making; 151, Nut and Bolt Locks; 101, Printing.

CLASS 192.—CLUTCHES. (XVII.)

Subclasses.

- | | |
|---|--|
| 22. Ball. | 8. Longitudinally-movable, single-face. |
| 1. Clutches. | 9. Longitudinally-movable, with projections. |
| 21. Dog. | 10. Multiple-disk. |
| 2. Eccentric or wedge. | 11. Radially-movable shoes. |
| 3. Expansible segment. | 12. Radially-movable shoes, opposing. |
| 18. Fluid. | 20. Ratchet. |
| 4. Frictional and positive. | 13. Split-ring. |
| 5. Lever-shoe. | 14. Strap. |
| 6. Locking-pawl. | |
| 7. Longitudinally-movable, double-face. | |

CLASS 199.—LINOTYPING. (XVII.)

Subclasses.

- | | |
|---------------------------|-----------------------------|
| Bar-machines— | 3. Linotype-making. |
| 5. Plural, | 2. Linotypes. |
| 6. Single. | 9. Machine attachments. |
| 14. Brushing devices. | 12. Matrices. |
| 7. Circulating-machines. | 15. Melting-pots. |
| 8. Guide-machines. | 10. Miscellaneous machines. |
| 4. Justifying devices. | 13. Molds and cutters. |
| 16. Justifying mechanism. | 11. Rotary machines. |

CLASS 198.—MATRIX-MAKING. (XVII.)

Subclasses.

- | | |
|---|---|
| 1. Bar. | 5. Reciprocating die-carrier, mechanical. |
| 2. Dies. | 6. Rotary die-carrier. |
| 7. Matrices and materials. | |
| 3. Miscellaneous. | |
| 4. Reciprocating die-carrier, electrical. | |

CLASS 151.—NUT AND BOLT LOCKS. (XVII.)

(For definitions see Supplement No. 2, p. 2543.)

Subclasses.

- | | |
|-----------------------------|-----------------------------------|
| 2. Coupled nut and bolt— | Locked nut— |
| 5. Cross-key— | Base-clutch— |
| 6. Spring-seated, | Biting-tooth— |
| 7. Elastic gripping action, | Nut-carried, |
| 4. Flexible-key, | 37. Friction, |
| 3. Flexible-washer, | 39. Pawl-and-ratchet— |
| 8. Longitudinal-key, | 40. Nut-carried pawl, |
| Pawl-and-ratchet— | 41. Yielding interlocking washer, |
| 9. Bolt-carried pawl, | 42. Distorted, |
| 10. Nut-carried pawl— | 43. Gravity nut or washer, |
| 11. Flexible, | 44. Side-lock— |
| 12. Pivoted, | Flexible— |
| 13. Washer-carried pawl, | 50. Automatic— |
| 14. Thread-lock— | 51. Colled washer, |
| 19. Cam or cone grip, | 52. Spring-tongued washer-plate, |
| 20. Canted-nut, | 53. Inelastic washer-tongue, |
| 21. Distorted-nut, | 54. Longitudinal— |
| 22. Distorted-thread, | 55. Nut-held— |
| 23. Longitudinal-key, | 56. Reversed-nut, |
| 24. Radial key or gib, | 57. Side-pin, |
| 25. Side-clutch, | 58. Spike-held, |
| 15. Superposed nuts— | 59. Swinging, |
| 16. Oppositely-threaded— | 60. Washer-tongue held, |
| 17. Key or pawl locked, | 61. Pawl-and-ratchet, |
| 18. Side-locked, | 45. Rotatable washer— |
| 26. Tangential-key, | 46. Bent-tongue locked, |
| 27. Top-stop— | 47. Pawl-locked, |
| 28. Positive-lock— | 61. Transversely-sliding— |
| 29. Side, | 62. Key, plate, or bar— |
| 30. Thread-gripper, | 63. Nut-held, |
| 31. Wedged slotted bolt. | 64. Sliding-washer, |
| 1. Flowing metal. | 65. Transversely-swinging, |
| 32. Locked bolt. | 66. Transverse base-locking key. |
| 33. Locked nut— | |
| 34. Base-clutch— | |
| 35. Biting-tooth— | |
| 36. Colled-washer, | |

CLASS 101.—PRINTING. (XVII.)

Subclasses.

- | | |
|-----------------------------------|----------------------------------|
| 1. Address-printers— | 27. Color-machines— |
| 2. Strip-form. | 28. Graining. |
| 4. Bed - and - cylinder machines— | 26. Composing-sticks. |
| 158. Bed-movements, | 29. Deliveries— |
| 5. Cushions, | 30. Associators, |
| 153. Multirevolution— | 31. Droppers, |
| 154. Perfecting, | 32. Fly-frames, |
| 6. Oscillating-cylinder— | 33. Gripper-pliers, |
| 7. Perfecting, | 34. Receiving-tables. |
| 8. Perfecting, | 36. Feeding— |
| 155. Sliders, | 37. Gages— |
| 9. Stop-cylinder— | 38. Front stops, |
| 10. Perfecting, | 39. Separators— |
| 11. Travelling-cylinder— | 40. Buckling, |
| 12. Perfecting. | 41. Pneumatic, |
| 13. Bed - and - platen machines— | 42. Web. |
| 14. Inking attachment, | 43. Folders— |
| 15. Oscillating— | 44. Longitudinal, |
| 16. Roller-inker— | 45. Longitudinal and rotary, |
| 17. Orbital, | 46. Newspaper-wrapping machines, |
| 18. Roller and plate inker, | 152. Oscillating, |
| 19. Stationary roller-inker, | 47. Reciprocating, |
| 20. Roller-inker, | 48. Rotary, |
| 21. Roller and plate inker, | 49. Sheet-conveyers. |
| 22. Tympan-gages, | 50. Furniture— |
| 23. Web. | 51. Quoins, |
| 24. Branding-stamps. | 52. Tools and appliances. |
| 25. Chases. | 53. Galleys— |
| | 54. Galley-locks— |
| | 55. Rests. |

DIVISION XVII.—CONTINUED.

CLASS 101.—Continued.

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|-------------------------------|--------------------------------|
| 56. Hand-stamps— | Rotary machines— |
| 57. Check-punches. | 120. Associators and folders. |
| 58. Head and handle— | 122. Machines and associa- |
| 59. Inking attachment, | tors. |
| 60. Mutilators, | 123. Machines and deliveries. |
| 61. Roller— | 125. Machines and folders. |
| 62. Inking attachment, | 124. Machines, associators |
| 63. Inking attachment, | and folders. |
| 64. Mutilators, | 126. Non-perfecting. |
| 188. Racks, | 127. Reversing and perfect- |
| 66. Sealing-tools, | ing. |
| 160. Settable-type carrier— | 121. Rotary conical printing- |
| 161. Inking attachment, | couple. |
| 70. Tumbler. | 128. Ruling-machines— |
| 181. Imitating. | 129. Rotary. |
| 71. Inking apparatus— | 130. Setting and distributing— |
| 73. Composition rollers, pre- | Distributing— |
| serving, | 189. Feeder-selector, |
| 74. Fountains, | 190. Keyboard, |
| 75. Pads and holders, | 191. Type-arrangers, |
| 76. Rollers— | 192. Type-line separators, |
| 77. Compositions, | 193. Ward-selector, |
| 78. Traveling ductor-plate, | 194. Leading and unleading, |
| 79. Traveling roller and | 195. Setting. |
| plate. | 196. Conveyer-feed, |
| 80. Mail-marking machines— | 197. Gravity-feed, |
| 81. Rotary— | 198. Hand-supply, |
| 82. Machines and stackers. | 199. Justifiers, |
| 83. Marking-machines— | 200. Making and setting, |
| 84. Rotary. | 201. Type-channels. |
| 85. Multicolor-machines— | 131. Sheet-stencils, making. |
| 86. Bed-and-cylinder— | 179. Spaces and straight col- |
| 87. Multiple-impression, | umn-rules. |
| 88. Bed-and-platen, | 132. Stenciling-machines. |
| 89. Rotary— | 133. Stencil-making pens. |
| 90. Multiple printing- | 134. Stencil-plates. |
| couple, | Surfaces— |
| 91. Supplemental forms. | 165. Backing apparatus, |
| 183. Numbering-machines— | 163. Elastic, |
| 184. Form attachments, | 164. Fountain, |
| 185. Hand, | 167. Holders— |
| 186. Measurers and markers. | Cylinder-mandrel, |
| 96. Paper-damping ma- | 168. Metal-sheet stretchers, |
| chines— | 169. Miscellaneous, |
| 97. Winders. | 166. Mechanical transferring |
| 157. Phototypographs. | and registering. |
| 98. Planographic machines— | 159. Multicolor, |
| 99. Bed-and-cylinder, | Planographic— |
| 172. Copying apparatus, | Elastic pantographs, |
| 180. Damping, | 171. Hectographic compo- |
| 100. Rotary. | sitions. |
| 101. Plate. | 173. Miscellaneous, |
| Plate-machines— | 204. Photomechanical, |
| 102. Bed-and-cylinder, | Relief and intaglio— |
| 103. Bed-and-platen, | Backs and blocks, |
| 104. Rotary. | 177. Combination, |
| 105. Traveling-bed. | 175. Integral metal type, |
| 106. Press-copying— | 174. Miscellaneous, |
| 107. Damping. | 178. Non-elastic materials, |
| 111. Printing-couple appli- | 176. Photomechanical, |
| ances— | 205. Tintographs. |
| 112. Anti-offset devices, | 162. Ticket-machines. |
| 113. Blankets, | 187. Traveling-bed machines. |
| 156. Friskets, | 148. Type-cases— |
| 115. Grippers. | 149. Feeding. |
| 182. Processes. | 202. Type-machines. |
| 117. Rotary machines— | |
| 118. Associators— | |
| 119. Stop-sheet, | |

DIVISION XVIII.

EXAMINER GSANTNER.

CLASSES.—162, Injectors and Ejectors; 160, Steam and Vacuum Pumps; 122, Steam-Boilers; 121, Steam-Engines; 136, Steam-Engine Valves.

CLASS 162.—INJECTORS AND EJECTORS. (XVIII.)

No subclasses.

CLASS 160.—STEAM AND VACUUM PUMPS. (XVIII.)

No subclasses.

CLASS 122.—STEAM-BOILERS. (XVIII.)

Subclasses.

- | | |
|-----------------------|----------------------------------|
| 1. Attachments. | 12. Introducing smoke and gases. |
| 5. Circulation. | 33. Manholes. |
| 2. Cleaners— | 13. Rotary. |
| 30. Steam or air jet. | 32. Safety devices. |
| Condensers— | 14. Sectional— |
| 35. Injector. | 34. Headers. |
| 36. Surface. | 15. Separators. |
| 22. Feeders. | 16. Superheaters. |
| 6. Fire-tube. | 37. Traps— |
| 7. Flashers. | 38. Expansion. |
| 8. Flue and tubular. | 17. Tubes and flues. |
| Heating feed-water— | 4. Vapor-generators. |
| 29. Furnace-gases, | 27. Water-tube— |
| 20. Steam, | 28. Coil. |
| 21. Steam-injected. | 18. Water fire-box. |
| 10. Incrustation. | |
| 11. Indicators. | |

CLASS 121.—STEAM-ENGINES (XVIII.)

Subclasses.

- | | |
|--------------------------------|------------------------------|
| 105. Attachments— | Multiple-expansion— |
| 106. Cross-head. | 31. Starting-valve, |
| 2. Bell-ringer. | 36. Tandem— |
| 1. Combined engine and boiler. | 37. Central-valve, |
| 119. Compensating devices. | 38. Double-acting— |
| 117. Cylinder relief-valve. | 39. Multiple-valve. |
| 44. Diaphragm. | 41. Multiple-piston. |
| 96. Exhaust mechanism. | 42. Oscillating-cylinder. |
| 95. Exhaust-regenerated. | 43. Oscillating-piston. |
| 19. Hammers— | 107. Packing— |
| 20. Piston-hammer, | 108. Piston, |
| 22. Stamp, | 109. Rod, |
| 21. Valveless. | 110. Steam-joint. |
| 14. Locomotive— | 104. Pistons. |
| Compound— | 18. Portable. |
| 15. Cross | Pumping— |
| 16. Starting-valve | 3. Compensating, |
| 17. Tandem. | 4. Duplex— |
| 115. Lubricators. | 5. Multiple-expansion, |
| 116. Mufflers. | 6. Multiple-cylinder, |
| Multiple-cylinder— | 7. Multiple-expansion, |
| Longitudinal— | 8. Single-cylinder— |
| 23. Multiple-valve, | 9. Trigger-valve. |
| 24. Parallel, | 46. Reciprocating-cylinder. |
| 25. Radial— | 10. Rock-drills— |
| 26. Multiple-valve, | 11. Piston-controlled valve, |
| 27. Tandem— | 12. Valveless. |
| 28. Multiple-valve. | 47. Rotary— |
| Multiple-expansion— | 48. Alternating-piston, |
| 32. Concentric-cylinder, | 50. Collapsible-tube, |
| 33. Cross— | 51. Geared-abutment— |
| 34. Double-acting— | 52. Compound, |
| Multiple-valve, | 53. Multiple-cylinder, |
| | 54. Geared-piston, |

CLASS 121.—Continued.

- | | |
|---------------------------|--------------------------|
| Rotary— | Rotary— |
| 55. Gravity, | 82. Swinging-abutment— |
| 56. Impact— | 83. Compound, |
| 57. Axial-flow, | 84. Multiple-cylinder, |
| 58. Compound, | 85. Spring-operated, |
| 59. Injector, | 86. Steam-operated, |
| 60. Radial-flow, | 87. Swinging-piston— |
| 61. Reaction, | 88. Compound, |
| 62. Reciprocating-piston— | 89. Multiple-cylinder, |
| 63. Cam, | 90. Spring-operated, |
| 64. Crank, | 91. Steam-operated, |
| 65. Rotary-cylinder— | 92. Wabbling-piston— |
| 66. Sliding-piston, | 93. Disk, |
| 67. Sliding-abutment— | 94. Plane. |
| 68. Compound, | 45. Single-cylinder. |
| 69. Multiple-cylinder, | 111. Speed-governors— |
| 70. Radial— | 112. Centrifugal, |
| 71. Piston-operated, | 113. Marine, |
| Sliding-piston— | 114. Pressure, |
| 73. Compound, | 118. Turbine-control. |
| 74. Concentric— | 13. Steering mechanism. |
| 75. Cam-operated, | 97. Valve-gear— |
| 76. Longitudinal, | 98. Link, |
| 77. Steam-operated, | 99. Rod, |
| 78. Eccentric— | 100. Shifting-eccentric— |
| 79. Cam-operated, | 101. Automatic— |
| 80. Spring-operated, | 102. Inertia, |
| 81. Steam-operated, | 103. Tripping cut-off. |
| 72. Multiple-cylinder, | 40. Valveless. |

CLASS 136.—STEAM-ENGINE VALVES. (XVIII.)

Subclasses.

- | | |
|--------------------|---------------------|
| 1. Balanced-slide— | 12. Reversing. |
| 13. Double, | 7. Rotary. |
| 14. Roller. | 9. Safety. |
| 2. Cut-off. | 8. Slide. |
| 3. Gage-cocks. | 10. Steam-actuated. |
| 4. Governor. | 11. Throttle— |
| 5. Piston. | 15. Electric. |
| 6. Puppet. | |

DIVISION XIX.

EXAMINER MOORE.

CLASSES.—236, Dampers: Automatic; 110, Furnaces; 237, Heat-Distributing Systems; 126, Stoves and Furnaces.

CLASS 236.—DAMPERS. AUTOMATIC (XIX.)

Subclasses.

- | | |
|--------------------|--------------------|
| 1. Balanced motor. | 6. Fluid-pressure. |
| 2. Draft-operated. | 7. Miscellaneous. |
| 4. Electrical. | 8. Pressure-motor. |
| 5. Expansion. | |

CLASS 110.—FURNACES. (XIX.)

(For definitions see Bulletin No. 18, p. 4.)

Subclasses.

- | | |
|--|-------------------------------------|
| 165. Ash receiving and handling devices— | 24. Furnace structure— |
| 166. Ash-pan— | 25. Coking— |
| 167. Dumping— | 25. Gas passing under grate, |
| 168. Conjoined floor-sections, | 3. Cremation, |
| 169. Reciprocating discharge-valve, | Double fire-box— |
| 170. Scraper, | Alternate smoke - return— |
| 171. Steam and water attachments. | 26. Over fire, |
| 173. Doors— | 27. Downdraft, |
| 175. Feeding air, | 72. Feeding air— |
| 174. Feeding air and steam, | 75. Fire-box— |
| 179. Fluid-screens, | 76. Double, |
| 176. Operators— | Locomotive, |
| 177. Motor, | 74. Hollow grate, |
| 178. Pedal, | 73. Horizontal base, |
| Doors and casings— | 53. Feeding air and steam— |
| 180. Cooling, | Boiler-controlled, |
| 181. Door casings and arches— | 60. Fire-box— |
| 182. Feeding air, | 68. Bridge-wall arch, |
| 147. Draft-regulators— | Door and bridge-wall arch, |
| 163. Dampers, | 67. Door-arch, |
| 151. Exhaust-nozzle— | 65. Drop-arch, |
| 155. Air-feed, | 64. Interstitial outlet, |
| 156. Shunt-pipe, | 61. Locomotive, |
| 152. Variable-discharge— | 62. Superimposed— |
| 153. Boiler-controlled, | 63. Intermediate draft, |
| 154. Exhaust-controlled, | 56. Heaters— |
| 149. External exhaust and blower, | 57. Locomotive, |
| 162. Fan-exhaust, | Meeting furnace-gases, |
| 164. Lift-pipe, | 59. Horizontal base, |
| 148. Separation of gases, | 55. Time-limit, |
| 150. Steam-injector, | Undergrate— |
| Smoke-box— | 69. Deflectors, |
| 157. Feeding air— | 70. Locomotive, |
| 158. Door-operated, | 79. Feeding steam— |
| Stack— | 80. Fire-box, |
| 160. Air-jet— | Feeding steam and water— |
| 161. Steam-injected, | Undergrate, |
| 159. Portable. | 81. Feeding water, |
| Fronts. | 28. Fine fuel burned in suspension, |
| 101. Fuel-feeders— | 88. Fire-box— |
| 104. Blower, | Adjustable, |
| 105. Hopper, | 89. Bridge-wall arch, |
| 106. Pulverizer, | 90. Door and bridge-wall arch, |
| 103. Boiler-controlled, | 95. Door-arch, |
| 107. Bridge-wall, | 93. Drop-arch, |
| Chute— | 88. Exterior, detachable, |
| 116. Door— | 82. Interstitial outlet, |
| 117. Multiple-charge, | 87. Locomotive, |
| 108. Hopper— | 90. Superimposed— |
| Pusher— | 81. Intermediate draft, |
| 109. Reciprocating, | 22. Gas or oil and solid fuel, |
| 110. Screw, | 31. Gas-producer, |
| Spreaders— | 85. Grateless, |
| 111. Carrier— | 82. Horizontal base, |
| 112. Door, | 4. Horizontal cylindrical boiler, |
| 113. Oscillating, | 29. Magazine— |
| 114. Reciprocating-plunger, | 30. Cage-grate, |
| 115. Rotary, | 23. Multiple series, |
| 102. Shavings and sawdust, | Progressive-feed— |
| 118. Vertical-drop. | 33. Grate— |
| 1. Furnace structure— | 34. Boiler-controlled, |
| 99. Arches, | Chain— |
| 2. Automobile, | 43. Bridge-wall feed, |
| 97. Baffles and heat-retainers— | |
| 98. Water-tube boilers, | |
| 100. By-pass flue, | |

CLASS 110.—Continued.

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|------------------------------------|------------------------------------|
| Furnace structure— | Furnace structure— |
| Progressive-feed— | Wet-fuel— |
| Grate— | Garbage and sewage— |
| Chain— | 13. Rotary grate, vertical axis, |
| 42. Locomotive, | 14. Rotary retort, |
| 41. Multiple fuel, | 10. Steam-boiler, |
| 37. Raking-bar, | 16. Underfeed. |
| 38. Reciprocating-bar, | 183. Smoke-purifiers. |
| 39. Rocking-bar, | 184. Smoke-stacks. |
| Rotary— | 119. Spark-arresters— |
| 35. Horizontal axis, | 121. Combined stack and smoke-box, |
| 36. Vertical axis, | 120. Furnace-conductor, |
| 44. Underfeed— | 122. Smoke-box— |
| Center-feed— | 129. Discharge-valve, |
| 45. Continuous, | 124. Divided, |
| 46. Separate charges, | 123. Draft-regulator, |
| Progressive-feed | 127. Ejector, |
| grate— | 125. Hood, |
| Double, | 126. Vertical-drum, |
| Single, | 128. Water-receptacle, |
| 18. Refuse— | Stack— |
| 19. Brush, portable, | 130. Annular receptacle— |
| 20. Stubble, | Conductor, |
| 21. Stump, | 134. Central discharge downward, |
| 83. Reversible draft, | 135. Central discharge upward, |
| 49. Smoke and gas return— | 131. Feeding air, |
| Before passing boiler-flues— | 141. Heads, symmetrical, |
| 52. From fire-box, | 132. Return-current, |
| 50. Locomotive, | 137. Rotary baffle, |
| 5. Straw burners and feeders— | 138. Spiral baffle, stationary— |
| 6. Fire-box, exterior, detachable, | 139. Separator, |
| 7. Wet-fuel— | 142. Steam or water spray, |
| 17. Fuel-support above grate, | 140. Tangential separator, |
| 8. Garbage and sewage— | 143. Water-receptacle, |
| 11. Closed retort, | 144. Water-receptacle, |
| 9. Dry closets, | 145. Spark and smoke conductors— |
| 15. Drying-conveyor, | 146. Train. |
| 12. Reverberatory platform, | |

CLASS 237.—HEAT-DISTRIBUTING SYSTEMS. (XIX.)

Subclasses.

- | | |
|--------------------|------------------------------|
| 1. Air— | Train— |
| 2. Steam or water. | 11. Smoke, |
| Car— | 12. Steam, |
| 3. Air, | 13. Water— |
| 4. Steam, | 14. Steam. |
| 5. Water. | 15. Water— |
| Local— | 16. Steam. |
| 6. Air, | 17. Pipe-hangers, |
| 7. Steam, | 18. Steam-radiators— |
| 8. Water. | 19. Attachments, |
| 9. Steam. | 20. Heat-diffusing elements. |
| 10. Air, | |

CLASS 126.—STOVES AND FURNACES. (XIX.)

(For definitions see Bulletin No. 20, p. 6.)

Subclasses.

- | | |
|--------------------------------------|------------------------------------|
| 242. Ash discharge and collecting— | 281. Dough-raisers— |
| 243. Ash-pan— | 282. Lamp type. |
| 244. Sifting, | 201. Fenders, |
| 245. Combined stove and ash-pan. | 202. Fire screen or guard, |
| 285. Dampers— | 203. Fireplace-hearth. |
| 286. Distance operating devices— | 286. Fire-dogs. |
| 287. Door-operated, | 120. Fireplaces— |
| 288. Fireplace, | 134. Air-moistening attachments, |
| 289. Stove— | 135. Blowers— |
| 290. Draft, | 136. Stove structure, |
| 291. Repair, | 137. Cooking and oven attachments, |
| 292. Stovepipe— | 130. Firebacks— |
| 293. Combined damper and ventilator, | 131. Hot-air, |
| 294. Cone, | 138. Fronts— |
| 295. Lock and indicator, | 139. Frames, |
| 296. Multiple, | 140. Grate-closure, |
| 297. Sinuous passage. | 141. Heat-reflector, |
| | 142. Hoods, |
| | 143. Hearths, |

DIVISION XIX.—CONTINUED.

CLASS 126—Continued.

121. Fireplaces—	188. Heating-drums—
122. Hot-air—	189. Stovepipe—
123. Stove structure—	189. Hot-air—
124. Magazine—	99. Hot-air furnaces—
125. Two-room heaters,	113. Air-moisteners,
127. Liquid or gaseous fuel—	114. Casings,
128. Asbestos fireback—	102. Circular radiating-drum,
129. Hot-air,	100. Combined furnace and
126. Stove structure,	101. cooking-stove,
125. Two-room direct radia-	101. Combined furnace and
tion,	steam or water,
132. Water-backs—	110. Compressed-air,
133. Liquid or gaseous fuel.	111. Double fire-pot,
144. Fire-pots and linings—	103. Downdraft,
145. Adjustable,	115. Dust-flue,
147. Divided,	112. Feeding air,
146. Feeding air,	104. Horizontal combustion-
148. Fire-plate,	chamber,
149. Rotary—	105. Hot-air equalizers,
Horizontal axis,	106. Internal air-chamber,
150. Vertical axis,	119. Joints,
151. Sectional,	116. Liquid or gaseous fuel,
204. Foot-warmers—	107. Magazine,
205. Bed-heaters,	117. Preliminary air-heater,
206. Composition-fuel,	118. Radiating-flanges,
207. Heated-block,	108. Secondary heating-cham-
208. Liquid or gaseous fuel—	ber, horizontally ar-
209. Combined heater and	ranged,
lantern,	109. Tubular air-heater.
210. Water-heater.	325. Hot-air registers—
283. Fuel-boxes.	330. Air-moistening attach-
284. Glue-pots.	ments,
152. Grates—	327. Border or frame,
153. Adjustable—	328. Flush-surface,
154. Vertically,	331. Foot-rests,
155. Agitating—	329. Heat-distributor,
157. Alternate bar,	326. Wall,
156. Alternate ends,	272. Liquid-sterilizers.
158. Dumping,	Ovens—
159. Pocket,	273. Domestic—
160. Closures,	274. Dutch,
161. Cut-off,	275. Portable,
162. Dumping,	276. Wagon,
163. Feeding air,	277. Platforms—
164. Fireplace,	278. Stove-boards—
165. Basket,	279. Ventilating.
166. Fuel cut-off,	280. Soot-catchers.
167. Grate-bar—	190. Stove doors and win-
168. Removable fuel-sup-	dows—
port,	191. Balanced,
169. Operating mechanism,	192. Door-operator,
Oscillatory—	193. Feeding air,
170. Vertical axis—	194. Hinges,
171. Dumping-section,	195. Knobs,
172. Sliding section,	196. Latches—
173. Raking attachments,	197. Combined latch and
174. Reciprocating—	operator,
175. Alternate bar,	198. Oven-doors, ventilating.
176. Rocking-bar—	199. Thermometer attach-
177. Dumping,	ments,
178. Duplex,	200. Transparent-panel.
179. Grate-bar—	299. Stove-hoods—
180. Removable fuel-sup-	300. Stove-discharge,
port,	301. Stovepipe-discharge—
Rotary—	302. Stove-casing,
Horizontal axis,	303. Top-plate casing.
182. Vertical axis.	Stove implements—
Heaters—	320. Combined,
246. Dish,	321. Fire-tong,
247. Frictional,	322. Handles,
Liquid or gaseous fuel—	323. Lid-lifter,
Attachments—	324. Poker,
248. Drum,	304. Stove-legs—
249. Gas-jet—	305. Base-supports,
250. Air—	306. Sheet-metal.
251. Jet-mixer,	211. Stove lids and tops—
252. Article-support—	212. Centers or cross-pieces,
253. Jet-mixer,	213. Illuminating,
254. Combined,	217. Heating-stove—
255. Lamp—	218. Cooking attachments,
256. Article-support,	219. Ornaments and urns,
Chimney-heaters—	220. Lids,
257. Air,	214. Liquid or gaseous fuel—
258. Article-support,	215. Elevating-support,
Stands—	216. Extension-top,
259. Air-heaters,	221. Stove-mats.
260. Article-support,	307. Stovepipes—
261. Lunch—	313. Air-moistening attach-
262. Combined can and	ments,
heater—	310. Elbows—
263. Chemical heater,	311. Changeable angle,
264. Fireless cookers,	308. Joints or couplings,
265. Liquid or gaseous	309. Seam,
fuel—	312. Ventilation.
266. Dinner-buckets—	314. Stovepipe-thimbles—
267. Combined bucket	315. Adjustable flue-collar,
and lantern,	316. Combined thimble and
268. Wagon,	ventilator,
269. Powder,	317. Floor or ceiling plates,
270. Solar—	319. Flue-stoppers,
271. Water.	318. Stovepipe anchor or lock.
183. Heating-drums—	Stoves—
184. Air-heating attachments,	56. Car—
185. Chimney attachments,	57. Protective casings,
Portable heat-radi-	1. Cooking—
ators—	8. Brick-set,
Hot-air,	14. Broiling attachments,

CLASS 126—Continued.

Stoves—	Stoves—
Cooking—	Heating—
55. Combined base and hot	Liquid or gaseous
closet,	fuel—
4. Combined cooking and	Gas—
heating stove—	Open-front—
6. Air-heating,	Hot-air,
7. Magazine,	91. Radiator type,
5. Steam or water gen-	93. Liquid—
erators,	94. Flue-connected,
2. Double fire-pot—	95. Vapor,
3. Cooking and heating,	96. Wick—
Elevated ovens—	97. Heating and illu-
17. Smoke-pipe heated,	minating,
18. Top-plate supported,	98. Joints,
15. Feeding air,	73. Magazine—
16. Flue-cleaners,	74. Reversible-draft,
12. Hearths—	base-heating,
13. Fire-pot,	62. Open-front—
9. Knockdown or separ-	63. Hot-air,
able,	59.5. Orchard,
Liquid or gaseous	50. Panel,
fuel—	75. Reversible-draft, base-
37. Cabinet,	heating,
36. Combined coal and	65. Sheet-metal—
gas,	66. Hot-air,
38. Folding or nesting	79. Smoke and gas return-
kit,	ing,
39. Gas—	81. Stove-plates,
41. Broilers,	80. Ventilating attach-
40. Burner-stands,	ments,
42. Safety attach-	332. Stove-shelves—
ments,	333. Brackets or stands,
Liquid—	334. Drop—
43. Alcohol,	335. Door-operated,
51. Drip pan or recep-	336. Fireplace-grate,
table,	337. Oven shelf or rack—
44. Vapor,	338. Rotary,
45. Wick—	339. Sliding—
46. Extension-top,	340. Door-operated,
47. Lamp type—	341. Stovepipe—
48. Combined top,	342. Drop,
chimney, and	343. Swinging.
burner	226. Tool-heaters—
49. Reservoir-sup-	227. Flat-iron—
porting top and	228. Attachments,
burner	229. Liquid or gaseous fuel—
50. Supporting-	230. Flat-iron,
frame,	231. Gas-burner attach-
52. Valve mechanism,	ments—
article-controlled,	232. Combined lighting
53. Water-backs—	and heating,
54. Combined burner	233. Jet-mixer,
and water-back,	234. Tool-controlled
10. Magazine—	valve,
11. Portable,	235. Lamp attachments,
19. Ovens—	236. Soldering-iron—
22. Protector-plate,	237. Gas-heaters—
20. Steam or hot water,	238. Tool-controlled
21. Ventilated,	valve,
23. Reversible,	239. Liquid-fuel—
24. Ship's galley,	240. Combined heater
25. Summer—	and solder-pot,
26. Detachable fire-pot,	241. Lamp.
27. Stove-top sup-	Trash-burners—
ported—	222. Cooking-stoves—
28. Stove-flue con-	223. Feeding attachments,
nected,	224. Domestic-refuse burners,
29. Field—	225. Heating-stoves.
30. Supporting-frame,	344. Water-heaters—
32. Spittoon attachments,	345. Kettle-furnace—
33. Tables, steam-heated,	346. Canning,
34. Water-backs—	347. Horizontal combus-
Safety devices,	tion-chamber,
Water-heating—	348. Steam generators and
Flue extension,	cookers,
58. Heating—	349. Tilting,
Adjustable pipe-collar,	350. Liquid or gaseous fuel—
82. Camp,	Automatic,
59. Deflector-plate,	351. Auxiliary—
76. Downdraft,	353. Detachable,
77. Feeding air,	354. Coil,
78. Feeding steam,	355. Drip-plate,
60. Horizontal body—	356. Film,
61. Hot-air,	357. Hinged or separable,
Hot-air—	358. Lamp type,
71. Central air-tube,	359. Overflow,
70. Internal air-cham-	360. Submerged,
ber,	361. Stand-boilers—
68. Magazine,	362. Circulation,
69. Reversible-draft,	363. Supports,
base-heating,	369. Steaming apparatus,
72. Tubular air-heaters,	364. Stovepipe—
Liquid or gaseous	365. Circulation,
fuel—	Submerged—
84. Combined heating	366. Closed systems pipes,
and ventilating,	367. Portable,
85. Gas—	368. Stationary,
Hot-air,	Vessels—
90. Incandescent fire-	370. Steam or water heat-
grate,	ed—
86. Open-front—	371. Closed chamber or
87. Asbestos fire-	coil,
back—	372. Jet.
88. Hot-air,	

DIVISION XX.

EXAMINER WILKINSON

CLASSES.—3, Artificial Limbs; 16, Builders' Hardware; 32, Dentistry; 70, Locks and Latches; 109, Safes; 27, Undertaking.

CLASS 3.—ARTIFICIAL LIMBS. (xx.)

Subclasses.

- | | |
|------------------------|---------------------|
| 1. Arms and hands. | 3. Legs. |
| 4. Crutches. | 6. Leg-joints. |
| 5. Foot extensions. | 7. Plastic splints. |
| 2. Fracture apparatus. | |

CLASS 16.—BUILDERS' HARDWARE. (xx.)

Subclasses.

- | | |
|-------------------------------------|--|
| 1. Blind-stops. | |
| 2. Bolts— | |
| 61. Double-door, | |
| 63. Multiple, | |
| 66. Operators, | |
| 64. Sliding, | |
| 65. Sliding and rotary. | |
| 3. Carpet-fasteners— | |
| 68. Clasp, | |
| 69. Moldings, | |
| 70. Strips, | |
| 71. Tack-fasteners. | |
| 4. Casters— | |
| 164. Adjustable, | |
| Antifriction-rollers— | |
| 73. Loose, | |
| 72. Pivoted, | |
| 45. Ball— | |
| 151. Antifriction-rollers, | |
| 152. Pivoted, | |
| 165. Leg-elevators— | |
| 166. Frame, | |
| 168. Locked, | |
| 76. Pintle-retainers | |
| 74. Spring, | |
| 167. Temporary, | |
| 75. Wheels. | |
| 6. Door-checks— | |
| 77. Buffers, | |
| 80. Catches and buffers, | |
| 79. Catches, floor, | |
| 78. Catches, wall, | |
| 81. Chain or link, | |
| 83. Foot-bolt, | |
| 82. Foot-lever, | |
| 84. Sliding-bolt, | |
| 85. Trippers, | |
| 86. Weights. | |
| 46. Door checks and closers— | |
| 88. Liquid, | |
| 87. Pneumatic. | |
| 47. Door-closers, gravitating. | |
| 7. Door-hangers— | |
| 89. Brackets, | |
| 156. Lever, | |
| 157. Releasing, | |
| 90. Roller-carriage— | |
| 91. Ball-bearing, | |
| 92. Sliding, | |
| 93. Stay-rollers. | |
| 8. Door-securers— | |
| 154. Braces. | |
| 9. Door-springs— | |
| 94. Bow, | |
| 95. India-rubber, | |
| 96. Lever attachments, | |
| 98. Sliding-door, | |
| 97. Strap and pulley attachments, | |
| 99. Torsional— | |
| 100. Coiled, | |
| 101. Flat, | |
| 102. Volute. | |
| 158. Ferrules, rings, and thimbles— | |
| 159. Ferrule-tips, | |
| 160. Ring-ferrules | |
| 10. Handles— | |
| 103. Coffin— | |
| 153. Braces. | |
| 11. Hinges— | |
| 48. Awning-blind, | |
| 104. Box, | |
| 5. Coach, | |
| 105. Concealed, | |
| 106. Door— | |
| 107. Butt, | |
| 108. Strap, | |
- | | |
|---------------------------------|--|
| Hinges— | |
| 109. Flush, | |
| 49. Gate, | |
| 163. Gravitating, | |
| 111. Lock, frictional, | |
| 110. Lock, positive, | |
| 112. Longitudinally-adjustable, | |
| 14. Safe, | |
| 25. Spring, | |
| 27. Table, | |
| 113. Vertically-adjustable. | |
| Sash-balances— | |
| 114. Friction, | |
| 115. Spring— | |
| 148. Drum and cord, | |
| 149. Friction-roller, | |
| 150. Gear and rack, | |
| 116. Weight. | |
| 16. Sash-cord fasteners— | |
| 125. Weight. | |
| 17. Sash-cord guides. | |
| 18. Sash-fasteners— | |
| 117. Gear and rack, | |
| 53. Lifts, | |
| 51. Mid-rail, | |
| 52. Right-angle, | |
| 118. Rod-clamps, | |
| 119. Sliding bolts. | |
| 19. Sash-holders— | |
| 121. Clamps, | |
| 120. Combined fasteners, | |
| 122. Foot, | |
| 54. Roller-bearing, | |
| 124. Wedges. | |
| 20. Sash-weights. | |
| 22. Shutter-bowers. | |
| 23. Shutters— | |
| 126. Fasteners— | |
| Bars or bolts. | |
| Catches— | |
| 128. Double, | |
| 131. Gravity, | |
| 130. Rod, | |
| 127. Single, | |
| 155. Sliding, | |
| 129. Wall, | |
| 55. Combined sash, | |
| 56. Fire, | |
| 132. Hooks, | |
| 133. Operators, | |
| 24. Workers— | |
| 57. Combined slat, | |
| 134. Cord or chain, | |
| 135. Levers, | |
| 136. Rotary-shaft, | |
| 137. Sliding-shaft, | |
| 138. Sliding-shutter. | |
| 26. Stair-rods and secure— | |
| 139. Buttons, | |
| 140. Fasteners, | |
| 141. Rods. | |
| 162. Suspending-hooks— | |
| 161. Portable. | |
| 37. Till-alarms. | |
| 28. Transom-lifters— | |
| 142. Pivots. | |
| 29. Window-head fasteners. | |
| 30. Window and door buttons— | |
| 58. Automatic, | |
| 143. Sliding bolts, | |
| 144. Screw, | |
| 59. Strips, | |
| 145. Trippers, | |
| 146. Vertically-swinging. | |

CLASS 32.—DENTISTRY. (xx.)

Subclasses.

- | | |
|------------------------|-----------------------------|
| 1. Articulators. | 7. Operative. |
| 12. Bridgework. | 8. Pluggers— |
| 13. Disks and holders. | 18. Air, |
| 14. Engines— | 24. Angle attachments, |
| 21. Bracket-supports, | 25. Hand-operated, |
| 23. Friction-gear, | 26. Power-operated. |
| 22. Standard-supports. | 19. Regulators and spacers. |
| 3. Foli-condensers. | 20. Rubber-dam clamps. |
| 15. Handpieces— | 33. Saliva-ejectors. |
| 11. Angle attachments. | 9. Teeth— |
| 16. Jaw-braces. | 32. Filling, |
| 17. Matrices. | 29. Metal-crown, |
| 4. Mechanical. | 30. Porcelain-crown. |
| 5. Miscellaneous. | 10. Tools— |
| 6. Molds. | 31. Burs, |
| 27. Mouth-mirrors. | 34. Forceps. |
| 28. Obtundors. | |

CLASS 70.—LOCKS AND LATCHES. (xx.)

Subclasses.

- | | |
|---------------------------------|---------------------------------|
| 116. Bag-fasteners. | Locks— |
| 3. Box-fasteners— | 75. Pivoted-tumbler, |
| 80. Seal, | 23. Seal— |
| 81. Sliding-bolt, | 95. Seals, |
| 82. Spring-catch. | 31. Sliding-door, |
| 83. Hasp-fasteners. | 76. Sliding-tumbler, |
| 7. Key-fasteners— | 79. Systems of locks, |
| 65. Portable. | 25. Till, |
| 8. Keyhole-guards— | 26. Time, |
| 61. Sliding and pivoted. | 27. Trunk— |
| 9. Keys. | 115. Swinging-hasp, |
| 10. Knobs. | 77. Tumbler and dog, |
| 11. Knob attachments— | 78. Without tumblers. |
| 84. Key-fasteners, | 15. Lock-strikes— |
| 85. Screw-spindle. | 52. Electric. |
| 86. Set-screw and pin fastener, | 16. Lock-trimmings. |
| 87. Spring-fastener, | 29. Locks and latches combined. |
| 88. Wedge-fastener. | 17. Padlocks— |
| 12. Knob-roses, | 104. Divided-shackle, |
| 41. Knob-spindle fasteners. | 110. Indicator— |
| Latches— | 111. Pivoted-shackle, |
| 64. Automatic-detent, | 19. Permutation— |
| 28. Gate, | 112. Pivoted-shackle, |
| 51. Gravity, | 113. Sliding-shackle, |
| 44. Lifting— | 96. Pin, |
| 45. Hooked-end, | 105. Pivoted-shackle— |
| 43. Pivoted-end, | 106. Sliding-bolt, |
| 21. Reversible, | 107. Rotating-shackle, |
| 42. Sliding, | 97. Seal, |
| 49. Swinging. | 108. Sliding-shackle. |
| 14. Locks— | 18. Permutation— |
| 2. Bag, | 56. Dials, |
| 90. Bicycle, | 55. Hasp, |
| 4. Car-seat, | 96. Keyhole-guards, |
| 46. Cylinder, | 58. Knob-pins, |
| 91. Cylinder-knob— | 57. Operating-handle, |
| 92. Multiple-key, | 54. Push-pin, |
| 50. Electric— | 53. Rotating tumblers, |
| 63. Combination, | 60. Sliding tumblers, |
| 62. Time, | 59. Spindles, |
| 5. Hasp, | 67. Till-locks. |
| 6. Indicator, | 94. Seal-bolts. |
| 74. Multiple-bolt, | 117. Seal-buckles. |
| 69. Multiple-key— | 98. Seals— |
| 70. Adjustable tumbler, | 99. Automatic-catch, |
| 71. Master-key, | 100. Box and bag, |
| 72. Primary and secondary, | 101. Box-strap. |
| 73. Trap, | 24. Shackles. |
| 20. Piano, | 102. Sliding-door fasteners. |
| 47. Pin— | 103. Trunk-fasteners. |
| 93. Multiple-key, | |

DIVISION XX.—CONTINUED.

CLASS 109.—SAFES. (xx)

Subclasses.

- | | |
|-------------------------|---------------------------|
| 1. Burglar-proof. | 3. Safe bolt-work— |
| 4. Circular-door. | 9. Automatic |
| 5. Express. | 10. Safe-filling. |
| 2. Fireproof. | 7. Safety-deposit. |
| 6. Gas and explosives. | 12. Safety-deposit boxes. |
| 11. Pressure mechanism. | 8. Water and air. |

CLASS 27.—UNDERTAKING. (xx.)

Subclasses.

- | | |
|--------------------------|----------------------------|
| 1. Biers. | Coffins— |
| 2. Burial apparatus— | 15. Life-signals, |
| 5. Grave-fillers, | 16. Linings and coverings, |
| 6. Raising and lowering. | 7. Metallic, |
| 3. Coffins— | 8. Plastic material, |
| 10. Brackets, | 17. Shields, |
| 11. Corners, | 9. Wooden. |
| 12. Fasteners, | 4. Embalming— |
| 13. Head-rests, | 18. Apparatus, |
| 14. Lids, | 19. Processes |

DIVISION XXI.

EXAMINER GILES.

CLASSES.—13, Brakes and Gins; 19, Carding; 26, Cloth-Finishing; 28, Cordage; 38, Felt and Fur; 66, Knitting and Netting; 117, Silk; 118, Spinning; 139, Weaving.

CLASS 13.—BRAKES AND GINS. (XXI.)

Subclasses.

- | | |
|----------------------------|----------------------------|
| 10. Delinting cotton-seed. | 2. Hackling-machines. |
| 1. Gin attachments. | 3. Hair-pickers. |
| 11. Gin-brushes. | 4. Oakum-machines. |
| 17. Gin-condensers. | 5. Processes. |
| 12. Gin-feeders— | 6. Reciprocating brakes. |
| 19. Pneumatic. | 7. Roller-gins. |
| 13. Gin-ribs. | 21. Rotary brakes— |
| 20. Gin-rollers. | 16. Breakers and crushers, |
| 15. Gin-saw cleaners. | 18. Scutchers. |
| 14. Gin-saws. | 9. Saw-gins. |

CLASS 19.—CARDING. (XXI.)

Subclasses.

- | | |
|-------------------------------------|-------------------------------|
| 16. Balling heads. | 14. Fleece-removers. |
| 1. Burring. | 8. Lapping. |
| 2. Card-clothing. | 19. Opener-beaters. |
| 3. Carding. | 20. Opener evening mechanism. |
| 5. Collers. | 9. Pickers. |
| 17. Comb dabbling mechanism. | 21. Screens. |
| 6. Combing— | 25. Stopping. |
| 24. Circle combs. | 15. Stripping mechanism. |
| 12. Covering yarn. | 23. Traveling-flat cards. |
| 22. Cylinders and rollers. | 10. Wadding. |
| 18. Dust-trunks. | 11. Wool-oiling. |
| 7. Feeding cards. | |
| 13. Fleece dividers and condensers. | |

CLASS 26.—CLOTH-FINISHING. (XXI.)

Subclasses.

- | | |
|-------------------------------------|----------------------------|
| 10. Beetling. | 5. Pressing. |
| 11. Calendering. | 13. Rigging. |
| 9. Cutting lace and looped fabrics. | 6. Shearing. |
| 2. Finishing. | 14. Singeing. |
| 12. Finishing cut pile fabrics. | 7. Sponging. |
| 3. Folding. | 8. Stretching. |
| 18. Guiding. | 16. Stretching and drying. |
| 4. Napping— | 17. Winding. |
| 19. Planetary machines. | |

CLASS 28.—CORDAGE. (XXI.)

Subclasses.

- | | |
|--------------------------------|---------------------------------------|
| 23. Balls. | 13. Tassels. |
| 2. Banding. | 33. Tying yarns. |
| 3. Bobbin-supporters. | 14. Warping. |
| 4. Braiding. | 30. Warping-reeds. |
| 24. Braiding carriers. | 31. Warping stop-motions. |
| 25. Braids. | 32. Winding balls. |
| 21. Cord and rope machines. | 17. Winding bobbins— |
| 5. Cords and ropes. | 17. Sewing-machine shuttle, |
| 6. Covering cord. | 15. Warp-wind, |
| 7. Finishing yarn and thread. | 16. Weft-wind, |
| 27. Fuse and packing machines. | 22. Winding heddle and seine needles. |
| 29. Lease-formers. | 18. Winding spools. |
| 9. Packaging braid and yarn. | 19. Winding tatting-shuttles. |
| 10. Reels. | 20. Yarn guides and clearers. |
| 11. Separating rope. | |

CLASS 38.—FELT AND FUR. (XXI.)

Subclasses.

- | | |
|----------------------|---------------------|
| 7. Fabrics. | 10. Forming bats. |
| 8. Felting-machines. | 11. Fulling. |
| 9. Flock-cutting. | 12. Furs and pelts. |

CLASS 66.—KNITTING AND NETTING. (XXI.)

Subclasses.

- | | |
|--|------------------------------|
| 19. Circular machines— | 5. Needles. |
| 20. Dial. | 6. Netting. |
| 21. Independent needles— | 27. Rotary burs and sinkers. |
| 22. Dial— | 7. Stopping. |
| 23. Fashioning. | 28. Fashioning machines— |
| 24. Fashioning. | 29. Cams and stops, |
| 25. Looper pin and hook. | 30. Fashioning. |
| 17. Crocheting. | 31. Looper pin and hook. |
| 3. Darning. | 9. Take-ups and tensions. |
| 4. Fabrics. | 10. Tatting. |
| 12. Feeding. | 32. Transferring devices. |
| 26. Loopers, sinkers, and web-holders. | 33. Traverse warp-machines. |
| | 34. Warp and weft machines. |

CLASS 117.—SILK. (XXI.)

Subclasses.

- | | |
|-----------------|----------------|
| 1. Assorting. | 6. Stretching. |
| 3. Cocooneries. | 7. Throwing. |
| 4. Doubling. | 8. Winding. |
| 5. Silk. | |

CLASS 118.—SPINNING. (XXI.)

Subclasses.

- | | |
|------------------------------------|-----------------------------------|
| 1. Bobbin and cop builders. | 11. Rings and travelers. |
| 31. Bobbin and spindle connectors. | 27. Spindles and appurtenances. |
| 2. Bobbins. | 25. Spindles and bearings— |
| 26. Clearers. | 18. Bolsters. |
| 30. Covering yarn. | 19. Combined bearings, |
| 5. Domestic. | 20. Sleeve whirles and standards, |
| 6. Doubling. | 21. Steps. |
| 7. Drawing and evening. | 24. Spindle-driving devices. |
| 23. Drawing-rollers. | 12. Stopping. |
| 17. Drawing stop mechanism. | 22. Top-roll saddles. |
| 28. Drawing-trumpets. | 13. Throistles and caps: |
| 29. Fliers. | 14. Twisting-heads. |
| 8. Hemp, flax, and hair. | 16. Yarn-controllers. |
| 9. Mules and jacks. | |
| 10. Ring-frames. | |

CLASS 139.—WEAVING. (XXI.)

Subclasses.

- | | |
|----------------------------------|----------------------------|
| 47. Bag-turning machines. | 22. Picker-checks. |
| 5. Carpet-rag loopers. | 21. Pickers. |
| 6. Chenille. | 86. Reed-machines. |
| 40. Chenille-machines. | 87. Reeds. |
| 50. Cutting double pile fabrics. | Shedding— |
| 67. Driving and lay motions. | 78. Cam and treadle. |
| 9. Fabrics— | 80. Harness connections, |
| 70. Elastic. | 88. Harness-retractors, |
| 71. Pile. | 79. Pattern-controlled. |
| 72. Tubular. | 27. Shuttles— |
| 41. Fringe-machines. | 44. Cop-cell and cover, |
| 10. Fringes. | 45. Float-detecting. |
| 73. Heddle-frames. | 46. Guides and tensions, |
| 13. Heddle-machines. | 89. Spindles and tips, |
| 14. Heddles. | 90. Weft-detecting. |
| 16. Jacquard mechanism. | 28. Shuttle-boxes. |
| 74. Lay structures. | 29. Shuttle-checks. |
| 75. Lease-rods. | 30. Shuttle-guards. |
| 18. Looms— | Shuttle-motions— |
| 1. Bag. | 48. Fly. |
| 2. Basket. | 83. Magnetic. |
| 3. Buttonhole, | 69. Pneumatic. |
| 7. Circular. | 49. Positive. |
| 84. Cross-weaving. | 43. Shuttle-threaders. |
| 11. Haircloth, | 52. Stopping— |
| 12. Hand. | 51. Protector mechanism, |
| 15. Irregular. | Warp stop-motions— |
| 17. Lappet. | 91. Electrical. |
| 19. Narrow-ware, | 92. Mechanical. |
| 20. Needle. | 54. Weft stop-motions. |
| 23. Pile-fabric— | 61. Take-ups and let-offs— |
| 82. Longitudinal wires, | 56. Beams. |
| 63. Pile-wires, | 57. Escapement let-offs, |
| 64. Pile-wire motions, | 58. Friction let-offs, |
| 65. Terry. | 81. Guide and whip rolls, |
| 66. Tufted, | 59. Let-offs. |
| 32. Slat, cane, and straw, | 60. Take-ups. |
| 68. Swivel. | 36. Temples. |
| 85. Weft-replenishing, | 82. Treating warp and web |
| 39. Wire. | 87. Tying in warps. |
| 77. Loose-reed motions. | 38. Weft-forks. |
| 42. Pattern-chains. | |

DIVISION XXII.

EXAMINER COLWELL.

CLASSES.—124, Air-Guns, Catapults, and Targets; 102, Ammunition and Explosive Devices; 9, Boats and Buoys; 42, Firearms; 115, Marine Propulsion; 89, Ordnance; 239, Railway-Rails and Joints; 238, Railway-Ties and Fasteners; 114, Ships.

CLASS 124.—AIR-GUNS, CATAPULTS, AND TARGETS. (XXII.)

(For definitions see Bulletin No. 6, p. 7.)

Subclasses.

- | | |
|-------------------------|--------------------------|
| 7. Bows and cross-bows. | 15. Targets— |
| 1. Catapults— | 15.5. Aim-recorders, |
| 2. Rubber-spring. | 17. Flying— |
| Guns— | 19. Balls. |
| 8. Air— | 16. Moving. |
| 9. Blow, | 3. Target-traps— |
| 10. Spring— | 4. Magazine, |
| 11. Magazine, | 5. Pivoted throwing-arm— |
| 12. Spring— | 6. Rotatable. |
| 13. Magazine, | |
| 14. Rubber. | |

CLASS 9.—BOATS AND BUOYS. (XXII.)

(For definitions see Bulletin No. 8, p. 3.)

Subclasses.

- | | |
|-----------------------------|-------------------------------|
| 1. Boats— | 17. Life-preservers— |
| 6. Hull construction— | 20. Garment, |
| 6.5. Formers and framers, | 18. Mechanical propulsion, |
| 5. Hunting, | 19. Self-inflating. |
| 3. Life-boats— | 11. Life-rafts— |
| 4. Inclosed, | 13. Mattress, |
| 7. Seats and foot-supports, | 12. Ship parts and furniture. |
| 2. Sectional and folding. | 14. Life-saving apparatus. |
| 8. Buoys— | 24. Oars— |
| 8.5. Oil-distributors, | 25. Bow-facing. |
| 10. Safes, | 15. Rafting and booning— |
| 9. Wreck-indicating. | 16. Timber-couplings. |
| 22. Hoisting and lowering— | 26. Rowlocks. |
| 23. Detaching devices. | 21. Swimming appliances. |

CLASS 42.—FIREARMS. (XXII.)

(For definitions see Bulletin No. 7, p. 11.)

Subclasses.

CLASS 102.—AMMUNITION AND EXPLOSIVE DEVICES. (XXII.)

(For definitions see Bulletin No. 5, p. 6.)

Subclasses.

- | | |
|-----------------------|-----------------------|
| 5. Blasting— | Projectiles— |
| 6. Cartridges— | 31. Lubricating, |
| 7. Electric, | 35. Oil-distributing, |
| 8. Fuses— | 40. Sabots— |
| 9. Caps, | 41. Wedge-expanded, |
| 10. Electric, | 32. Self-rotating. |
| 11. Plugs. | 29. Shells— |
| 12. Cartridges— | 36. Fuses— |
| 13. Accelerating, | 37. Combination, |
| 14. Practice, | 38. Electric, |
| 18. Primers— | 39. Percussion, |
| 19. Electric, | 30. High-explosive, |
| 16. Shells— | 42. Wads. |
| 17. Breech structure, | 20. Pyrotechnics— |
| 15. Shot. | 21. Cartridges, |
| 1. Miscellaneous. | 22. Fire-crackers, |
| 43. Primers. | 23. Rockets, |
| 26. Projectiles— | 24. Torches, |
| 27. Bomb-lances, | 25. Toy torpedoes. |
| 33. Canister. | 2. Torpedoes— |
| 28. Capped or covered | 3. Submarine mines, |
| 34. Line-carrying. | 4. Well. |

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|-----------------------------|------------------------------|
| 76. Barrels— | Breech-loading— |
| 77. Auxiliary, | Upward-tilting breech— |
| 79. Choke devices, | 47. Ejectors— |
| 78. Rifling. | 48. Hammer, |
| 86. Bayonets. | 46. Extractors, |
| 2. Breech-loading— | 41. Locks— |
| Automatic— | 43. Cocking devices, |
| 3. Gas-operated, | 42. Single-trigger. |
| 4. Recoil-operated, | 52. Cane-guns. |
| 8. Breech-hinged barrel, | 84. Electric appliances. |
| 9. Faucet breech-block, | 85. Gun-trimmings. |
| 10. Forward-sliding barrel— | 90. Implements— |
| Magazine, | 91. Cleaning— |
| 7. Grip magazine-pistols, | 92. Rod-joints, |
| Magazine, | 93. Intrenching, |
| Magazines— | 94. Rests, |
| Box, | 95. Shell-extracting. |
| 12. Side-swinging barrel— | 69. Locks— |
| Parallel pivot, | 70. Safety. |
| Sliding breech-block— | 87. Magazine-chargers— |
| Magazine, | 88. Packs— |
| Rearward— | 89. Revolver. |
| Extractors, | 1. Miscellaneous. |
| Magazine— | 51. Muzzle-loaders. |
| Box, | 83. Nipples and guards. |
| Rotary, | 53. Pistol-swords. |
| Pivoted hammer— | 59. Revolvers— |
| Magazine— | 63. Hinged-barrel— |
| Box, | 64. Barrel-catches, |
| Vertical mortise— | 65. Locks— |
| Magazine, | 67. Cylinder-stops, |
| 5. Spring-motor operated. | 66. Safety devices. |
| Swinging breech-block— | 60. Magazine-fed cylinder, |
| Downward and rear- | 61. Muzzle-loaders, |
| ward— | 68. Shell-extractors. |
| Magazine, | 62. Swinging-cylinder. |
| Laterally forward, | 80. Sights— |
| Laterally rearward, | 81. Reflectors and illumina- |
| Magazine, | tors, |
| Parallel pivot— | 82. Vertically-adjustable. |
| Magazine, | 71. Stocks— |
| Rearward and down- | 73. Adjustable |
| ward— | 72. Auxiliary. |
| Magazine, | 74. Cushioned. |
| Upward and forward— | 75. Stock and barrel fasten- |
| Magazine, | ings. |
| Upward and rearward— | 54. Toy— |
| Magazine, | 55. Cannon, |
| Upward-tilting breech— | 56. Liquid-throwing, |
| Barrel-locks | 58. Revolvers, |
| Hammer-cocking, | 57. Ribbon-fed. |

DIVISION XXII.—CONTINUED.

CLASS 115.—MARINE PROPULSION. (XXII.)

(For definitions see Bulletin No. 17, p. 11.)

Subclasses.

- | | |
|------------------------------|-------------------------------|
| 19. Buoyant propellers— | 51. Paddle-wheels— |
| 20. Rotary hull. | 51. Fitting and driving— |
| 63. Chain propellers— | 54. Depth regulation, |
| 65. Feathering, | 53. Channels and ways, |
| 64. Steering and adjustable. | 52. Horizontal and inclined |
| 66. Crank-paddles— | wheels, |
| 67. Steering and adjustable. | 50. Steering. |
| 11. Jet— | 17. Portable propellers— |
| 13. Explosive, | 18. Steering. |
| 14. Hydraulic, | 31. Reciprocating propellers— |
| 15. Pneumatic-drive, | 33. Reversing, |
| 16. Wheel-drive, | 32. Steering. |
| 12. Steering. | 34. Screw-propellers— |
| 1. Land and water boats— | 44. Adjustable blades— |
| 2. Pedomotors. | 45. Reversing, |
| 21. Manual power— | 36. Fitting and driving— |
| 22. Catamaran, | 42. Casings and shields, |
| 23. Paddle-wheel, | 39. Channels and ways, |
| 24. Screw. | 41. Depth regulation, |
| 25. Marine pedomotors— | 37. Multiple or twin screw— |
| 26. Catamaran, | 38. Side, |
| 27. Bicycle-propelled. | 43. Propeller-shaft brakes, |
| 28. Oscillating propellers— | 40. Self-clearing, |
| 29. Reversing, | 46. Radial blades— |
| 30. Steering. | 47. Removable, |
| 49. Paddle-wheels— | 48. Rims or cylinders, |
| 61. Adjustable blades or | 35. Steering. |
| buckets, | 6. Towing— |
| 62. Curvilinear blades or | 7. Cable systems, |
| buckets, | 9. Ground-wheels or polers, |
| 55. Feathering blades— | 10. Towing-machines, |
| 56. Adjustable, | 8. Track systems. |
| 60. Eccentrics, | 4. Wave propulsion— |
| 59. Gearing, | 5. Oscillating weight, |
| 58. Guides, tracks, etc., | 3. Wind-motors. |
| 57. Radial axis, | |

CLASS 89.—ORDNANCE. (XXII.)

(For definitions see Supplement No. 4, p. 2996.)

Subclasses.

- | | |
|---------------------------|----------------------------|
| 8. Accelerating. | 9. Machine-guns— |
| Automatic— | 11. Axially-moving breech- |
| 2. Gas-operated, | block, |
| 3. Recoil-operated. | 10. Centrifugal, |
| 14. Barrels— | 12. Revolving barrels, |
| 16. Composite, | 13. Revolving cylinder. |
| 15. Wound. | 1. Miscellaneous. |
| 17. Breech-closures— | 37. Mounts— |
| 26. Gas-checks, | 38. Disappearing gun— |
| 18. Key-locked, | 39. Counterpoise, |
| 19. Screw— | 40. Field, |
| 20. Interrupted— | 42. Recoil-checks— |
| 21. Fixed-ammunition, | 43. Fluid, |
| 22. Transverse— | 44. Spring, |
| 24. Sliding, | 41. Training mechanisms. |
| 23. Sliding and swinging, | 6. Pneumatic— |
| 25. Swinging. | 7. Explosive charge. |
| 33. Cartridge-feeding— | 29. Practice-barrels. |
| 35. Belts, | 4. Semi-automatic. |
| 34. Holders. | 36. Shields. |
| 27. Firing devices— | 32. Sights. |
| 28. Electric. | 5. Submarine. |
| 45. Loading— | 31. Tompions and valves. |
| 46. Hoisting apparatus, | 30. Vents and stoppers. |
| 47. Rammers. | |

CLASS 239.—RAILWAY-RAILS AND JOINTS. (XXII.)

Subclasses.

- | | |
|-------------------|-----------------------|
| Rail-joints— | Rail-joints— |
| 1. Boxes, | 11. Threadless bolts, |
| Bridge-pieces— | 12. Truss, |
| 2. Base, | 13. Web-blocks. |
| 3. Tread, | 14. Rails— |
| 4. Cast-on, | 15. Braces, |
| 5. Insulated, | 16. Compound, |
| 6. Joint-chairs, | 17. Guard— |
| 7. Miscellaneous, | 18. Clamps, |
| 8. Scarf, | 19. Rack. |
| 9. Splice-bars— | |
| 10. Girder, | |

CLASS 238.—RAILWAY-TIES AND FASTENERS. (XXII.)

Subclasses.

- | | |
|------------------------|---------------------|
| 1. Stringers and ties— | Stringers and ties— |
| 2. Chairs, | 5. Metallic, |
| 3. Composition, | 6. Pot-sleepers. |
| 4. Fastenings, | |

CLASS 114.—SHIPS. (XXII.)

(For definitions see Bulletin No. 17, p. 4.)

Subclasses.

- | | |
|------------------------------------|------------------------------|
| 206. Anchors— | 188. Furniture— |
| 209. Drags or sea-anchors, | 189. Cabins and state-rooms, |
| 207. Fluke— | 190. Life-preserver racks, |
| 208. Pivoted. | 191. Self-leveling— |
| 210. Anchor-trippers. | 192. Berths— |
| 121. Ballasting— | 193. Single-pivot, |
| 122. Antirolling, | 194. Chairs, |
| 126. Fins and boards, | 195. Tables. |
| 123. Floats, | 201. Hatches and covers— |
| 124. Shifting weights, | 203. Fasteners, |
| 125. Water-tanks. | 202. Sliding. |
| 183. Bilge-discharge— | 179. Hawse-pipes— |
| 184. Ejectors— | 181. Friction-rollers, |
| 186. Ash, | 180. Stoppers and covers. |
| 185. Ship's motion. | 43. Ice-boats. |
| 218. Bitts, cleats, and pin-rails. | 40. Ice-breakers— |
| 65. Building— | 42. Cutters, |
| 67. Antifriction surfaces, | 41. Rams. |
| 83. Bracing and staying, | 221. Implements— |
| 78. Bulkhead and compart- | 224. Calking, paying, etc., |
| ment, | 226. Clamps, |
| 71. Cabins, | 222. Hull-cleaning, |
| 86. Calking and seaming, | 223. Rigging, |
| 70. Canal and ferry boats, | 225. Spikes, pins, and fids. |
| 85. Decks, | 140. Keels— |
| 72. Freighters— | 142. Bilge, |
| 73. Bulk-cargo— | 143. Rocking, |
| 75. Antishifting devices, | 141. Vertical adjustment. |
| 76. Ceilings and floors, | 227. Leak-stoppers— |
| 74. Liquid, | 229. Aprons, mats, etc., |
| 68. Insubmersible vessels— | 228. Interior. |
| 69. Linings and fillings, | 230. Mooring devices— |
| 79. Iron— | 231. Ferry-slip. |
| 80. Corrugated, | 232. Oil-distributors— |
| 81. Tubular, | 234. Drags and floats, |
| 88. Joints, | 233. Ship structure. |
| 87. Knees, | 173. Ports— |
| 66. Observation-boats, | 177. Light and air— |
| 77. Sectional, | 178. Hinged covers, |
| 84. Sheathing and planking, | 174. Stoppers— |
| 82. Wood. | 175. Gun-port, |
| 116. Bulkheads and doors— | 176. Hinged. |
| 117. Doors— | 39. Sail-boats. |
| 118. Automatic— | 102. Sails and rigging— |
| 119. Sliding, | 115. Clues and thimbles, |
| 120. Sliding. | 114. Cringles and hanks, |
| 199. Cable-stoppers— | 113. Hoops and connections, |
| 200. Chain. | 112. Mast-travelers, |
| 127. Centerboards— | 109. Rigging screws and |
| 129. Multiple, | stretchers— |
| 132. Pivoted— | 110. Tension-relievers, |
| 135. Lateral, | 111. Running rigging. |
| 136. Lateral-swing, | |
| 137. Lateral-tilt, | 103. Sails— |
| 133. Sectional— | 108. Fastening devices, |
| 134. Fan, | 104. Reefing and furling— |
| 128. Steering. | 105. Fore and aft sails— |
| 138. Vertical-drop— | 106. Rolling. |
| 139. Sectional, | 107. Rolling. |
| 130. Vertical-drop and piv- | 26. Scows— |
| oted-swing— | 27. Dumping and unload- |
| 131. Sectional. | ing— |
| 219. Fenders— | 36. Bottom doors— |
| 220. Roller. | 37. Flooding-gates, |
| 56. Form— | 31. Platform— |
| 60. Canal and ferry boats, | 34. Conveyers, |
| 62. Concave bottom, | 35. Side doors, |
| 61. Divided hull, | 32. Tilting— |
| 64. Drafting, | 33. Carriers, |
| 63. Flat bottom, | 28. Sectional— |
| 58. Paddle-wheelers, | 29. Hinged, |
| 57. Screw-propeller type, | 30. Separable, |
| 59. Spindle. | 38. Turnover. |

DIVISION XXII.—CONTINUED.

CLASS 114.—Continued.

- | | |
|-------------------------------|------------------------------|
| 182. Scuppers. | 20. Torpedoes— |
| 187. Smoke-stacks. | 25. Depth regulation, |
| 89. Spars— | 21. External control, |
| 101. Fair leaders and chocks, | 22. Separable sections, |
| 97. Gaffs, booms, etc.— | 23. Steering mechanism— |
| 98. Pivoted, | 24. Gyroscope. |
| 99. Crotches and supports, | 240. Torpedo-guards— |
| 90. Masts and masting— | 241. Nets. |
| 93. Coats, shields, and | 238. Torpedo-launching— |
| steps, | 239. Outboard. |
| 92. Cross and trestle trees, | 235. Towing— |
| 94. Heads and irons, | 236. Steering mechanism— |
| 91. Swinging, | 237. Indicators. |
| 100. Spar-irons, | 204. Travelers— |
| 95. Yards— | 205. Tension-relievers. |
| 96. Trusses and parrels. | 196. Valves— |
| 144. Steering mechanism— | 197. Boat-plugs, |
| 146. Auxiliary, | 198. Sea-cocks. |
| 152. Fins, | 211. Ventilation— |
| 153. Foot, | 212. Valves. |
| 150. Fluid-pressure— | 44. Vessel raising and dock- |
| 151. Jet, | ing— |
| 149. Keel. | 49. Camels, caissons, and |
| 147. Paddles and wheels— | pontoons, |
| 148. Channels, | 45. Floating dry-docks— |
| 162. Rudders— | 48. Elevators, |
| 164. Auxiliary, | 47. End-gates, |
| 170. Brakes— | 46. Sectional, |
| 171. Hydraulic, | 50. Submerged— |
| 165. Hanging and shipping, | 52. Air-tanks— |
| 172. Locks, | 53. Camels, caissons, and |
| 163. Multiple, | pontoons, |
| 169. Post bearings and | 54. Inflatable bags, |
| heads, | 51. Hoisting, |
| 167. Sectional, | 55. Sand and mud loosen- |
| 166. Tubular, | ing. |
| 168. Jury, | 1. War-ships— |
| 145. Speed-retarders, | 9. Armored— |
| 160. Wheel and drum— | 11. Belting and plating— |
| 161. Intermediate gear, | 12. Compound— |
| 154. Wheel-shaft gearing— | 13. Buffers, |
| 155. Screw— | 10. Deflectors, |
| 156. Intermediate gear, | 14. Screens and shields, |
| 157. Right and left— | 15. Concealment, |
| 158. Intermediate gear, | 4. Floating batteries, |
| 159. Segmental rack. | 2. Rams— |
| 16. Submarine vessels— | 3. Battering, |
| 17. Torpedo-boats. | 5. Turret— |
| 213. Tension-relievers— | 6. Combined elevating |
| 215. Cable, | and rotary, |
| 216. Couplers— | 7. Elevating, |
| 217. Safety-release, | 8. Rotary. |
| 214. Fluid. | |
| 18. Torpedo-boats— | |
| 19. Spar. | |

DIVISION XXIII.

EXAMINER NEWTON.

CLASSES.—181, Acoustics; 133, Coin-Handling; 58, Horology; 234, Recorders; 235, Registers; 161, Time Controlling Mechanism.

CLASS 181.—ACOUSTICS. (XXIII.)

(For definitions see Supplement No. 1, p. 2602.)

Subclasses.

- | | |
|-----------------------------|-----------------------------|
| 30. Auditorium. | 8. Graphophones— |
| 23. Auricles. | 29. Tape. |
| 28. Dentiphones. | 27. Mechanical telephones. |
| 25. Ear-trumpets. | 27. Megaphones. |
| 3. Gramophones. | 5. Miscellaneous. |
| 2. Graphophones— | 11. Sound-boxes— |
| 12. Determining devices, | 11. Gramophone. |
| 5. Disk. | 10. Graphophone. |
| 9. Feed mechanism, | 26. Sound-locating devices. |
| 13. Mandrels, | Speaking-tubes— |
| 4. Multiple-record, | 19. Alarms and indicators. |
| 6. Reciprocating-record, | 20. Combined mouth and |
| 7. Swinging reproducer-arm, | ear pieces, |
| 17. Tablets— | 21. Mouthpieces, |
| 16. Duplicating devices, | 18. Systems, |
| 14. Methods and machines | 22. Tubes. |
| for making, | 24. Stethoscopes. |
| 15. Turning and smoothing, | 1. Telegraphophones. |

CLASS 133.—COIN-HANDLING. (XXIII.)

(For definitions see Bulletin No. 5, p. 14.)

Subclasses.

- | | |
|-------------------|---------------------|
| 3. Assorters. | 9. Packages— |
| 2. Change-makers. | 10. Wrappers. |
| 8. Counters. | 11. Receptacles— |
| Deliverers— | 12. Mats and trays— |
| 4. Multiple. | 13. Counter. |
| 5. Single— | 14. Mounted. |
| 6. Hand-operated. | 7. Tubes. |
| 1. Miscellaneous. | |

CLASS 58.—HOROLOGY. (XXIII.)

(For definitions see Bulletin No. 6, p. 3.)

Subclasses.

- | | |
|--------------------------|----------------------------|
| 139. Arbors and pinions. | Escapements— |
| 107. Balances— | Balance— |
| 108. Compensating, | 120. Duplex, |
| 114. Hair-springs— | 121. Lever— |
| 115. Collets and studs, | 122. Straight-line, |
| 109. Regulating— | 123. Pendulum— |
| 110. Compensating, | 124. Gravity. |
| 113. Curb-pins, | 1. Miscellaneous. |
| 111. Rack-and-pinion, | 129. Pendulums— |
| 112. Screw. | 135. Balls, |
| 138. Cannon-pinions. | 134. Beat-adjusters, |
| 2. Clocks— | 133. Compensation, |
| 3. Astronomical, | 130. Metronome, |
| Calendar— | 132. Regulating |
| 5. Dial, | 131. Torsion. |
| 6. Roller, | Safety-wheels— |
| 53. Cases— | 136. Barrel, |
| 54. Cylindrical, | 137. Center. |
| 55. Materials, | 140. Stuffs and bearings. |
| 56. Supports, | 141. Sun-dials. |
| 23. Electric— | 57. Watches— |
| Balance, | 86. Barrels— |
| 33. Circuit-controllers, | 87. Mainspring-fasteners, |
| 34. Hand-setters— | 58. Calendar, |
| 36. Opposed-lever, | 88. Cases— |
| 37. Sliding connection, | 91. Bezels, |
| 35. Systems, | 92. Centers— |
| 29. Pendulum— | 93. Integral, |
| 30. Actuated, | 89. Convertible, |
| 31. Regulated, | 90. Dust-proof, |
| 32. Synchronizers, | 103. Hinges, |
| 25. Primary, | 94. Movement-rings. |
| 26. Secondary— | 95. Pendants— |
| 27. Escapement, | 96. Bow-fasteners— |
| 38. Striking— | 97. Pin or screw, |
| 39. Intermittent-signal, | 98. Sleeve, |
| 24. Systems, | 99. Stem-fasteners, |
| 40. Winding— | 100. Screw, |
| 41. Self, | Watches— |
| 52. Frames, | Cases— |
| Geographical— | 101. Springs— |
| 43. Disk, | 102. Cover connections, |
| 44. Globe, | 59. Movements, |
| 50. Illuminated, | 104. Plates, |
| 51. Leveling devices, | 105. Protectors, |
| 45. Magic, | 60. Repeaters— |
| 42. Pneumatic, | 61. Double-snail— |
| 7. Trains— | 62. Trains, |
| 16. Alarm— | 73. Stem-winding |
| 17. Eight-day, | 63. Stem winding and set- |
| 19. Electric— | ting— |
| 20. Let-off— | 64. Lever-set— |
| 21. Alarm winding- | 65. Clutch, |
| arbor, | 66. Yoke, |
| 22. Let-off, | 67. Pendant-set— |
| 18. Repeating, | Clutch, |
| 8. Striking— | 68. Yoke— |
| 9. Cam-controlled, | 69. Double-gear— |
| 13. Chimes, | 70. Cam, |
| 14. Graphophone, | 71. Lever, |
| 12. Musical, | 72. Single-gear, |
| 10. Repeating— | Stop— |
| 11. Double-snail, | 74. Couplers, pivoted, |
| 15. Turn-backs, | 76. Couplers, sliding, |
| 46. Winding— | 77. Positive— |
| 47. Motors, pneumatic, | 79. Balance-stop, |
| 48. Motors, spring, | 79. Split seconds, |
| 49. Motors, thermal. | 106. Toy, |
| 127. Dials— | 80. Winding— |
| 128. Shifting figures. | 84. Attached keys, |
| 126. Dials and hands. | 85. Indicator. |
| 125. Dial-trains. | 81. Lever, |
| 116. Escapements— | 83. Overwinding - prevent- |
| 117. Balance— | ers |
| 118. Chronometer, | 82. Self-winders. |
| 119. Cylinder, | |

DIVISION XXIII.—CONTINUED.

CLASS 234.—RECORDERS. (XXIII.)

(For definitions see Supplement No. 2, p. 2535.)

Subclasses.

- | | |
|--------------------------------------|------------------------|
| 7. Anemometer. | Time— |
| 8. Cartographic. | Watchmen's— |
| 6. Combined readings. | 37. Miscellaneous, |
| 2. Combined recorders and registers— | 38. Stationary-record— |
| Fare— | Time-operated |
| Individual record, | marker, |
| Total-record, | Time-operated rec- |
| 5. Speed. | ord— |
| 1.5. Electric. | 39. Multiple-key, |
| 5.5. Electric meter. | 40. Single-key, |
| 9. Fare— | Workmen's— |
| 9.5. Electric. | 42. Check-receivers, |
| 10. Float. | 41.5. Electric, |
| 11. Heat. | Individual card— |
| 1. Miscellaneous. | 43. Time-impression, |
| 12. Passenger— | Intermittently-mov- |
| 12.5. Electric. | able record— |
| 13. Gate, | Time-printing |
| 14. Seat, | wheel— |
| 15. Step. | 44. Autographic, |
| 16. Power. | 45. Check-operated, |
| 17. Pressure— | Individual rec- |
| 18. Air-brake, | ord— |
| Gate— | 46. Single-impression, |
| Disk, | 47. Printing-key— |
| Drum. | 48. Operating- |
| 26. Ship's course— | lever, |
| 26.5. Electric. | 41. Miscellaneous, |
| 27. Signal— | Time-operated rec- |
| 27.5. Electric. | ord— |
| 28. Specific gravity. | 49. Autographic, |
| 29. Speed— | Individual record— |
| 29.5. Electric, | 50. Single-impression— |
| Shaft— | Printing-key, |
| 30. Continuous-record— | 51. Tag-operated |
| 31. Governor-controlled, | marker, |
| 32. Uniform-amplitude, | 53. Wage-computers. |
| 33. Intermittent-record. | Time-stamps— |
| 21. Steam-engine indicators— | Dial— |
| 22. Bourdon type, | 54. Movable-dial, |
| 23. Drum, | 55. Movable-platen, |
| 24. Engine connections, | 56. Movable-drum, |
| 25. Indicator-cylinder. | 57. Movable-platen, |
| 33.5. Telephone. | 53.5. Electric. |
| 36. Time— | 34. Volume— |
| 36.5. Electric. | 34.5. Electric, |
| Watchmen's— | 35. Meter-readings. |
| 37.5. Electric— | |
| 37.6. Receivers, | |

CLASS 235.—REGISTERS. (XXIII.)

(For definitions see Supplement No. 3, p. 2687.)

Subclasses.

- | | |
|----------------------------------|---------------------------------|
| 128. Alarm mechanism. | Fare-registers— |
| 106. Angled axes. | 44. Operating devices— |
| 123. Ball or button indicator. | 45. Electric, |
| 124. Bar-and-scale. | 46. Punch, |
| 125. Belt. | 36. Parallel-axes— |
| 61. Calculators— | 37. Cylinder, |
| 64. Adding-pencils, | 38. Dial-and-hand, |
| 68. Ball, | 39. Disk, |
| 69. Bar— | 32. Registering-boxes, |
| 70. Slide-rules, | 47. Resetting— |
| 65. Bar-and-disk, | 48. Direction-indicator, |
| 71. Belt, | 40. Single-axis— |
| 66. Cylinder-and-disk, | 41. Concentric-disk, |
| 62. Motor-actuated, | 42. Cylinder, |
| 72. Parallel-axes— | 43. Dial-and-hand, |
| 73. Cylinder, | 31. Ticket-delivery. |
| 74. Disk— | 129. Full-stroke mechanism. |
| 75. Key-operated, | 90. Game-boards. |
| 76. Gear, | 93. Gate and turnstile oper- |
| 58. Recording— | ated. |
| 59. Key-operated, | 94. Liquid-registers. |
| 60. Key-set, | 130. Locking mechanism. |
| 77. Single-axis— | 1. Miscellaneous. |
| 78. Concentric-disk, | 95. Odometers— |
| 79. Cylinder— | 96. Details, |
| 80. Keyless— | 97. Trip-and-total. |
| 81. Lever-operated, | 91. Operating devices. |
| 82. Key-operated, | 131. Overthrow-preventers. |
| 83. Disk— | 98. Package-operated. |
| 84. Slide-rules, | 108. Parallel axes— |
| 67. Spiral, | 110. Cylinder, |
| 85. Tabular— | 111. Dial-and-disk, |
| 86. Belt, | 112. Dial-and-hand, |
| 87. Cylinder, | 113. Disk— |
| 88. Disk, | 114. Hand-operated, |
| 89. Sheet, | 109. Gear. |
| 63. Traveling-carriage. | 105. Pedometers. |
| 126. Card. | 127. Pivoted indicator. |
| 4. Cash-recorders— | 99. Platform-operated. |
| 5. Manual. | 57. Registering ballot-boxes. |
| 7. Cash-registers— | 100. Registering-boxes. |
| 17. Checks— | 103. Rotation-counters— |
| 18. Balls, | 104. Timing devices. |
| 6. Departmental, | 115. Single-axis— |
| 19. Dial— | 116. Concentric-disk, |
| 20. Independent-indicator, | 117. Cylinder— |
| 21. Lever-operated, | 118. Single-cylinder, |
| 22. Drawer-operating mechanism, | 120. Dial-and-hand— |
| 23. Indicator mechanism— | 121. Multiple-hand, |
| 24. Shutters, | 119. Single-hand, |
| 25. Tablet-droppers, | 122. Differential gears, |
| 26. Key-arresters, | 123. Disk. |
| 27. Key-locks, | 107. Spiral. |
| 12. Key-operated— | 101. Stamp. |
| 13. Detail-adders, | 132. Stop mechanism. |
| 14. Differential mechanism— | 133. Transfer mechanism— |
| ism— | 134. Cam-and-lever, |
| 15. Key-coupled, | 135. Deep-notch, |
| 16. Lost-motion mechanism, | 136. Differential gears, |
| 8. Key-set— | 137. Independent-actuator— |
| 9. Crank-operated, | 138. Successive, |
| 10. Drawer-operated, | 139. Intermediate-pinion, |
| 11. Motor-operated, | 140. Side-tooth— |
| 28. Lid-registers. | 141. Lock, |
| 2. Cash registers and recorders— | 142. Traveling-pawl— |
| 3. Check-printing. | 143. Side-action. |
| 92. Electrically-operated. | 102. Type-writer word-counters. |
| 33. Fare-registers— | 51. Voting-machines— |
| 35. Belt, | 52. Assembly, |
| 30. Cab-fare-indicating, | 53. Check-operated, |
| 34. Dial-and-cylinder, | 55. Key-operated, |
| 49. Hundreds-indicator, | 54. Key-set, |
| 29. Multiple, | 50. Recording, |
| | 56. Vote-counters. |
| | 144. Zero-setting devices. |

CLASS 161.—TIME-CONTROLLING MECHANISM. (XXIII.)

(For definitions see Bulletin No. 6, p. 6.)

Subclasses.

- | | |
|-------------------------|-------------------------------|
| 23. Alarms. | 24. Time-balls. |
| Annunciators— | 15. Timing mechanism— |
| Electric— | 16. Cullinary, |
| 2. Selective-alarm, | 17. Game, |
| 3. Single-alarm— | 18. Speed, |
| 4. Adjustable-pln, | 19. Telephone-service, |
| 5. Auxiliary-switch, | 20. Watchmen's, |
| 6. Mechanical. | 21. Workmen's. |
| 22. Awakeners. | 7. Valve-actuating mechanism— |
| 11. Lighting mechanism— | ism— |
| 12. Electric, | 8. Dampers, |
| 13. Electric-light, | 9. Gas-cocks, |
| 14. Friction. | 10. Stock-feeders. |
| 1. Miscellaneous. | |

DIVISION XXIV.

EXAMINER DARBY.

CLASSES.—2, Apparel; 223, Apparel Apparatus; 112, Sewing-Machines; 128, Surgery.

CLASS 2.—APPAREL. (XXIV.)

Subclasses.

- | | |
|----------------------------|-----------------------------|
| Body-garments— | Head-coverings— |
| 54. Aprons, | 149. Eye-guards, |
| 34. Armpit-shields, | 108. Hats— |
| 57. Buttonhole-strips, | 109. Bands, |
| 58. Button-strips, | 110. Brim-bindings, |
| 59. Chest-protectors, | 111. Frames, |
| 60. Cloaks, | 186. Hangers, |
| 61. Coats— | 112. Shades, |
| 62. Collars, | 32. Sweats, |
| 53. Hangers, | 113. Tips, |
| 63. Shape-retainers, | 114. Ventilated, |
| 64. Sleeve-closures, | 33. Ventilators, |
| 65. Ventilated, | 115. Head-coolers, |
| 66. Collarettes, | 116. Head-screens, |
| 67. Collars— | 117. Helmets, |
| 68. Cape, | 118. Hoods, |
| 69. Closures, | 119. Masks, |
| 70. Necktie attachments, | 120. Muffs— |
| 71. Necktie-retainers, | 121. Ear. |
| 72. Waterproof, | Nether garments— |
| 73. Corsets— | 122. Bifurcated, |
| 74. Closures, | 123. Bustles, |
| 75. Shields, | 124. Edge-protectors, |
| 76. Corset-stiffeners— | 126. Gussets and stays, |
| 77. Hinged, | 127. Hoop-skirts— |
| 78. Reinforced, | 128. Clasps, |
| 79. Cuffs, | 129. Hoops, |
| 80. Lap-robcs, | 130. Knee-protectors, |
| 81. Linings, | 131. Napkins, |
| 11. Neckties— | 132. Packet-closures, |
| 82. Bow, | 15. Pockets— |
| 83. Made-up, | 134. Reinforced, |
| 84. Shields, | 151. Safety attachments— |
| 85. Tips, | 152. Pocket-book, |
| 86. Overcoats, | 153. Watch, |
| 87. Pads— | 154. Watch, |
| 88. Shoulder, | 135. Skirt-protectors, |
| 41. Shirts— | 136. Skirt-supporters, |
| 89. Bosoms, | 42. Skirts— |
| 90. Bosom-supporters, | 137. Cycling, |
| 91. Collar-supporters, | 138. Lifters, |
| 92. Reinforced, | 139. Riding, |
| 93. Shoulder-braces, | 23. Stockings, |
| 94. Sleeve-adjusters, | 140. Suspender attachments, |
| 95. Sleeve-protectors, | 141. Trunks, |
| 96. Suspender attachments, | 142. Waistbands, |
| 97. Vests, | 143. Waist-closures. |
| 98. Waists. | Union garments— |
| Hand-coverings— | 144. Bifurcated, |
| 99. Base-ball, | 145. Skirted. |
| 100. Bath, | Trimmings— |
| 101. Boxing, | 146. Edgings, |
| 9. Gloves, | 147. Embroidery— |
| 102. Mittens, | 6. Patterns, |
| 103. Muffs, | 148. Pendants, |
| 104. Shields. | 16. Plaited, |
| Head-coverings— | 150. Shoulder-straps and |
| 106. Caps— | chevrons. |
| 107. Flap, | |

CLASS 223.—APPAREL APPARATUS. (XXIV.)

Subclasses.

- | | |
|---------------------------------|------------------------|
| 1. Charts— | Hat-machines— |
| 2. Adjustable. | 31. Shapers, |
| 3. Cloth-pilers. | 32. Sizars, |
| 55. Collar, cuff, and bosom ma- | 33. Stretchers, |
| chines. | 34. Sweat-flangers. |
| 4. Corset-stiffeners, making. | 35. Needle-holders. |
| 14. Darning-lasts. | 36. Needle-threaders. |
| 15. Folders. | 37. Needles— |
| 16. Garment-fitters. | 38. Tape. |
| 17. Garment-formers. | 39. Plaisters— |
| 18. Garment-forms. | 40. Boards, |
| 19. Garment-stretchers. | 41. Creasers, |
| 20. Garment-turners. | 42. Fluters, |
| Hat-machines— | 43. Slotted-bed, |
| 21. Blocks, | 44. Vibrating-blade, |
| 22. Brim-curlers, | 45. Wavers. |
| 23. Brim-heaters, | 47. Spool-boxes. |
| 24. Brim-trimmers, | 48. Spool-holders. |
| 25. Brim-wirers, | 49. Spool-stands. |
| 26. Cleaners, | 50. Spool-tensions. |
| 27. Finishers, | 51. Thimbles. |
| 28. Ironers, | 52. Trimmings, making. |
| 29. Pinners, | 53. Work-boxes. |
| 30. Pouncers, | 54. Work-holders. |

CLASS 112.—SEWING-MACHINES. (XXIV.)

Subclasses.

- | | |
|-------------------------------|--------------------------------|
| 35. Attachment-holders. | 17. Running-stitch. |
| 1. Binders. | 18. Setters and threaders. |
| 41. Book-sewing. | 31. Sewing hats. |
| 3. Braiders and corders. | 19. Sewing looped fabrics. |
| 43. Broom-sewing. | 32. Sewing on buttons. |
| 4. Buttonhole. | 42. Sewing rugs. |
| 5. Chain and double chain. | 20. Sewing shoes. |
| 7. Embroidering. | 21. Short-thread. |
| 8. Feeding. | 22. Shuttle-machines. |
| 36. Glove-sewing machines. | 23. Shuttles and bobbins. |
| 9. Guides. | 24. Special machines. |
| 10. Hemmers. | 25. Straw. |
| 34. Methods. | 26. Take-ups. |
| 29. Miscellaneous parts. | 39. Tensions. |
| 11. Needles. | 33. Thread-cutters. |
| 37. Needle-clamps. | 6. Trimmers. |
| 13. Presser-feet and lifters. | 27. Tuck creasers and markers. |
| 14. Quilting. | 12. Tucking-guides. |
| 38. Revolving hooks. | 40. Turfing fabrics. |
| 15. Revolving-hook machines. | 28. Wax-thread. |
| 16. Rufflers and gatherers. | |

CLASS 128.—SURGERY. (XXIV.)

Subclasses.

- | | |
|-------------------------------|--------------------------------|
| 2. Atomizers. | 17. Nasal douches. |
| 3. Bandages— | 44. Needle holders and cases. |
| 38. Suspensory, | 18. Nipples. |
| 39. Water. | 20. Obstetrics. |
| 4. Breast-pumps. | 21. Pessaries. |
| 32. Capsule-machines. | 22. Pharmaceutical. |
| 5. Catamenial sacks. | 23. Scarificators and lancets. |
| 9. Depurators. | 24. Speculums. |
| 10. Ear. | 25. Syringes— |
| 11. Eye. | 45. Expanding-arm, |
| 13. Inhalers and respirators— | 46. Pile, |
| 42. Mask. | 47. Water-bag. |
| 43. Laryngoscopes. | 26. Trusses. |
| 28. Miscellaneous. | 51. Urinary apparatus. |
| 16. Movement cure. | 27. Veterinary. |

DIVISION XXV.

EXAMINER WYNNE.

CLASSES.—17, Butchering; 83, Mills; 130, Threshing; 146, Vegetable Cutters and Crushers.

CLASS 17.—BUTCHERING. (xxv.)

Subclasses.

- | | |
|-----------------------------|------------------------------|
| 8. Butchers' stalls. | Meat-cutters— |
| 6. Chopping-blocks. | 22. Hand, |
| Dressing— | 23. Rocking-knife, |
| 10. Fish-dressing machines, | 24. Slicers, |
| 11. Hog-scraping machines, | 25. Trip mechanism. |
| 12. Intestine-cleaners, | 26. Meat-mixers. |
| 13. Skinning. | Meat-tenderers— |
| 14. Meat-clamps. | 27. Hand, |
| Meat-cutters— | 28. Pivoted-head, |
| 16. Cracklings, | 29. Rotary. |
| 17. Crank mechanism, | 6. Sausage-machines. |
| 18. Cube, | 7. Scalding and singeing. |
| 19. Cylinder and block, | 30. Slaughtering, elevating, |
| 20. Cylinder and concave, | and suspending. |
| 21. Double-cylinder, | |

CLASS 130.—THRESHING. (xxv.)

Subclasses.

- | | |
|---------------------------------|------------------------------|
| 1. Band-cutters and feeders. | Grain-separators— |
| 31. Cane-strippers. | 18. Oat, seed, and garlic, |
| 2. Clover-hullers. | 16. Rotary screens, |
| 3. Corn-cribs. | 19. Screens and riddles, |
| 4. Corn-husking implements. | 15. Shaking screens, |
| 5. Corn-husking machines. | Straw-carriers— |
| Corn-shellers— | 21. Endless aprons, |
| 6. Breast and cylinder, | 22. Overhung rakes, |
| 7. Disk-action, | 23. Reels, |
| 9. Ear-grasping, | 24. Shaking tables, |
| 10. Implements, | 25. Vibrators, |
| 8. Peripheral action. | 26. Walking-rakes. |
| 12. Fans and regulators. | 14. Granaries and bins. |
| 33. Feeders for shellers and | 20. Stackers. |
| huskers. | Threshing-machines— |
| 13. Flax-threshers. | 27. Cylinder-machines, |
| 32. Fruit and vegetable separa- | 29. Dust-conveyers, |
| tors. | 28. Flail-machines. |
| Grain-separators— | 30. Vine and seed strippers. |
| 17. Gravity, | |

CLASS 83.—MILLS. (xxv.)

Subclasses.

- | | |
|----------------------------|------------------------------|
| Amalgamators— | Grinding-mills— |
| 65. Electric, | 12. Crushing-rolls, |
| 66. Lead, | 14. Cylinder and concave, |
| 67. Mercury, | 7. Disk-action, horizontal, |
| 68. Plate, | 8. Disk-action, vertical, |
| 69. Vacuum, | 44. Feed-regulators, |
| 70. Vapor. | 15. Grain-samplers, |
| Bagging grain— | 16. Grist-alarms, |
| Bag-holders. | 23. Hominy, |
| Chop-graders— | 46. Impact-pulverizers, |
| 50. Bran-dusters, beaters, | 6. Knife-action, |
| 51. Bran-dusters, brushes, | 1. Mill-spindles, |
| 49. Electric purifiers, | 3. Millstone-dress, |
| 42. Flour processes, | 4. Millstone-exhaust, |
| 40. Gravity, | 2. Millstone-trams, |
| 39. Rotary bolts, | 22. Paint, |
| 38. Shaking bolts. | 11. Rotary beaters. |
| Dust-collectors— | 73. Mortar-mixers. |
| 47. Reciprocating, | Ore and coal— |
| 48. Rotating. | 52. Coal-breakers, |
| Grain-scourers— | 53. Crushers, |
| 32. Centrifugal, | 63. Ice-crushers, |
| 36. Concave-face, | 62. Ice picks and shavers, |
| 31. Conical, | 72. Placer-mining, |
| 30. Cylinder, horizontal, | Separators— |
| 29. Cylinder, vertical, | 54. Dry, |
| 37. Disk-face, | 58. Jiggers, |
| 33. Pestle-action, | 71. Magnetic, |
| 35. Reciprocating and end- | 59. Washers, |
| less, | 56. Sifters and screens— |
| 34. Screw-action. | 60. Household, |
| Grinding-mills— | 57. Stamps. |
| 17. Balancing millstones, | Preparing grain— |
| 9. Ball and drum, | 28. Processes, |
| 21. Bark, | 27. Steaming and dampening. |
| 45. Chasing, | 64. Steam-boiler and flue |
| 18. Coffee, | scrapers. |
| 10. Compound movement, | 61. Sugar and salt crushers. |
| 13. Cone and shell, | |

CLASS 146.—VEGETABLE CUTTERS AND CRUSHERS. (xxv.)

Subclasses.

- | | |
|----------------------------------|--------------------|
| 8. Apple-parers. | Straw-cutters— |
| 16. Bunching-machines. | 34. Feeders, |
| Crushers and graters— | 21. Pivoted-knife— |
| 15. Reciprocating, | 24. Rake-feed, |
| 9. Rotary. | 22. Roller-feed, |
| Cutters— | 23. Without feed, |
| 12. Bread, | Rotary-wheel— |
| 7. Reciprocating, | 24. Follower-feed, |
| 11. Rotary, | 25. Rake-feed, |
| 3. Nut-crackers. | 26. Roller-feed, |
| 14. Peelers and washers. | 27. Without feed, |
| 6. Pitters, corers, and eye-cut- | Single-cylinder— |
| tors. | 28. Rake-feed, |
| 5. Seeders. | 29. Roller-feed, |
| Straw-cutters— | 30. Without feed, |
| Cutter and bed— | Sliding-knife— |
| 17. Reciprocating-knife, | 31. Rake-feed, |
| 18. Rotary-cylinder, | 32. Roller-feed, |
| 19. Cylinder and concave, | 33. Without feed. |
| 20. Double-cylinder, | |

DIVISION XXVI.

EXAMINER SHAW.

CLASSES.—219, Electric Heating and Rheostats; 191, Electricity: Electric Railways; 171, Electricity: Generation; 172, Electricity: Motive Power.

CLASS 219.—ELECTRIC HEATING AND RHEOSTATS. (xxvi.)

(For definitions see Bulletin No. 15, p. 3.)

Subclasses.	
19. Heaters—	Metal heating and work-
46. Flexible,	ing—
38. Fluid—	3. Shaping,
40. Fluid in circuit,	4. Welding—
39. Forced circulation,	7. Arc system—
41. Immersion,	8. Work in circuit—
42. Heating-fans,	9. Liquid electrode,
45. Incandescent-lamp,	10. Processes,
47. Inductional,	5. Rings,
33. Oil-well,	6. Tubes,
35. Ovens—	63. Resistance elements—
36. Tubular,	75. Carbon,
37. Radiating-plate,	76. Composition,
34. Radiators,	71. Compound-helix,
20. Systems,	64. Embedded—
21. Tools and instruments—	65. Fluid,
29. Burning—	66. Granular,
30. Branding-stamps,	67. Encased coils,
31. Cauters,	72. Granular,
32. Igniters,	73. Lamellar—
24. Hair-curlers,	74. Ribbon,
22. Heaters—	68. Piles,
23. Tool-controlled,	69. Zigzag grids,
25. Sad-irons,	70. Zigzag helix.
26. Soldering-irons—	48. Rheostats—
28. Indirectly-heated,	50. Compressible—
27. Solder-feeding,	51. Pie,
44. Vessels,	52. Spring,
43. Vessels and stands.	53. Continuous-resistance—
11. Metal heating—	56. Helix,
14. Arc system—	57. Liquid,
15. Work in circuit—	58. Penetration,
16. Liquid electrode,	59. Reel,
12. Soldering,	60. Tapering,
13. Transformer system,	53. Embedded-resistance,
17. Work-holders—	49. Lamp-socket,
18. Cooled,	54. Pie,
1. Metal heating and work-	61. Plug-boxes,
ing,	62. Rectilinear-slide.
2. Riveting,	

CLASS 191.—ELECTRICITY. ELECTRIC RAILWAYS. (xxvi.)

Subclasses.	
17. Collapsible-tube conductor.	Systems—
1. Conductor supports and insulators.	4. Battery,
2. Electric locomotives—	8. Circuits, series,
25. Electric control,	6. Closed conduit,
26. Electromechanical control,	5. Conduit—
30. Motor on axle,	32. Collectors,
24. Motor part along track,	42. Roadway structure,
27. Single and multiple motor,	9. Converters,
31. Traveling-dynamo,	41. Current-distribution—
15. General.	11. Overhead—
Sectional conductor—	12. Trolleys—
18. Connected,	35. Catchers—
19. Magnetic closers—	36. Drop,
33. Magnet on car,	37. Guards and finders,
34. Magneto-mechanical,	38. Ice-clearers,
21. Mechanical closers,	39. Poles and heads,
20. Traveling closers.	40. Stands,
	22. Telfer and towing.

CLASS 171.—ELECTRICITY. GENERATION. (xxvi.)

Subclasses.	
Batteries—	Meters—
73. Thermal.	Thermal—
23. Friction-generators.	270. Fluid-expansion,
95. Galvanometers—	271. Hot-wire,
308. Expansion.	272. Time,
Inductoriums—	273. Variable-radius.
122. Induction-coils,	125. Pyromagneto-electric devices.
123. Transformers. Rotary	Regulators—
124. Transformers. Stationary	119. Alternating—
Magneto-electric—	241. Compounding,
Armatures—	242. Inductive resistance,
205. Disk,	221. Brush adjustment,
206. Drum,	222. Circuit-interruption,
207. Pole,	224. Compounding-machines,
208. Ring,	223. Compound-winding,
209. Bipolar,	225. Counter electromotive force,
210. Brushes and holders,	226. Engine-control,
211. Commutators and collectors,	227. Magnetic reluctance,
118. Connecting devices,	228. Reducing sparks,
76. Hand-machines,	229. Resistance,
252. Multipolar,	230. Sectional winding,
212. Uniform-field.	231. Transmitting mechanism.
34. Meters—	97. Systems of distribution—
264. Alternating-motor—	253. Alternating-direct,
309. Phase-adjustment,	254. Transformer-controllers.
265. Direct-motor,	
266. Electrolytic,	
267. Escapement,	
268. Multiple-rate,	

CLASS 172.—ELECTRICITY. MOTIVE POWER. (xxvi.)

Subclasses.	
15. Dental instruments.	8. Steering and propulsion—
152. Elevators.	282. Automatic control,
36. Motors—	283. Cable control.
120. Alternating—	Transmission of power—
233. Condensers,	237. Alternating,
280. Polyphase,	239. Direct—
274. Regulators,	284. Magnetic clutches,
275. Single-phase—	281. Frequency-changers,
276. Direct-current type,	245. Phase-indication,
277. Distorted-field,	238. Phase-modification,
278. Shifting-field,	246. Phase-regulation,
279. Starters,	240. Reciprocating.
179. Hand-operating devices,	
126. Reciprocating.	

DIVISION XXVII.

EXAMINER GOULD.

CLASSES.—15, Brushing and Scrubbing; 51, Grinding and Polishing; 68, Laundry; 141, Washing Apparatus.

CLASS 15.—BRUSHING AND SCRUBBING. (xxvii.)

Subclasses.

- | | |
|------------------------------------|--|
| 1. Blacking box and brush cases. | 41. Chimney-cleaners—Flue and stovepipe, |
| 18. Blacking-box holders. | 42. Lamp. |
| 61. Boot-blackening machines. | 43. Combined mop heads and wringers. |
| 2. Boot-cleaners. | 44. Combined scrubbers and mops. |
| 4. Broom-machines. | 45. Dressing and assorting machines. |
| Brooms— | Fountain-brushes— |
| 19. Broom-heads, | 46. Blacking, |
| 20. Household, | 47. Broom, |
| 21. Stable and yard, | 48. Hair, |
| 22. Whisk. | 49. Paint, |
| 23. Brush and broom, bridles. | 50. Scrubbers, |
| 24. Brush and broom handles. | 51. Shaving, |
| 6. Brush and broom supports. | 52. Slate and blackboard cleaners, |
| 25. Brush-cleaners. | 53. Tooth, |
| Brush heads and faces— | 54. Window-cleaners. |
| 26. Bath and flesh brushes, | 55. Holders— |
| 27. Brush and broom fiber, | 56. Brush-head, |
| 28. Dusting-brushes, | 57. Convertible mop and brush, |
| 29. Hair-brushes, | 58. Mop-heads. |
| 30. Hat and clothes brushes, | 59. Lens-cleaners. |
| 31. Horse-brushes, | 60. Mats— |
| 32. Metal-cleaning brushes, | 61. Metallic, |
| 33. Metallic tuft-fasteners, | 62. Wire. |
| 34. Molded backs, | 63. Mops. |
| 35. Nail-brushes, | 64. Mop-wringers. |
| 36. Paint and whitewash brushes, | 65. Scrubbing-machines— |
| 37. Rotary brushes, | 66. Scrubbing-pails. |
| 13. Scrubbers, | 67. Shoe-blackening stands. |
| 38. Shaving-brushes, | 68. Shoe-brushes. |
| 65. Slate and blackboard cleaners, | 69. Street-sweepers. |
| 39. Tooth-brushes. | 70. Window-cleaners. |
| 7. Brush-machines. | |
| 40. Brush-trimming machines. | |
| 8. Carpet-cleaners. | |
| 60. Carpet-sweepers. | |

CLASS 51.—GRINDING AND POLISHING. (xxvii.)

Subclasses.

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|----------------------------------|--------------------------------|
| 1. Abrading materials and tools. | 7. Metal— |
| 17. Boots and shoes. | 8. Edge-tools, |
| File cleaning and resharpening— | 9. Mower and reaper knives. |
| 18. Sand blast. | 10. Needle-eyes, |
| Glass and stone— | 11. Needles, rods, and points, |
| 3. Curved surfaces, | 12. Plane surfaces, |
| 11. Plane surfaces. | 13. Rumbles, |
| Metal— | 14. Sheet metal and wire, |
| 2. Card-grinding, | 15. Strops, hones, and rifles. |
| 4. Curved surfaces, | 16. Wood— |
| 6. Cutlery-scourers, | 5. Curved surfaces, |
| | 13. Plane surfaces. |

CLASS 68.—LAUNDRY. (xxvii.)

Subclasses.

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|------------------------------|------------------------------------|
| 1. Bosom-boards. | 29. Washboards. |
| 2. Clamps. | 30. Washboilers. |
| 34. Clothes-driers. | 31. Washtubs. |
| 12. Clothes-line fasteners. | Washing-machines— |
| 14. Clothes-line reels. | 15. Agitator, |
| 3. Clothes-lines. | 16. Boiler, |
| 5. Clothes-pounders. | 17. Combined washing and wringing, |
| 6. Clothes sticks and tongs. | 18. Cylinder, |
| 7. Fluting-irons. | 19. Miscellaneous, |
| 8. Hand-rubbers. | 37. Pounder, |
| 9. Ironing-machines. | 20. Reciprocating-rubber, |
| 10. Ironing-tables. | 21. Rocking and swinging, |
| 13. Mangles. | 22. Roller, |
| 26. Sad-irons. | 23. Roller and bed, |
| 27. Sad-iron holders. | 24. Rotary-rubber. |
| 28. Starching-machines. | 32. Wringers. |
| 35. Washbenches. | 33. Wringer-rolls. |

CLASS 141.—WASHING APPARATUS. (xxvii.)

Subclasses.

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|--|---------------------------|
| 6. Barrel-washers. | 10. Dish-cloth holders. |
| 7. Bottle and can washers. | 11. Dish-drainers. |
| 9. Dish-cleaners. | 3. Tumbler-washers. |
| 8. Dish cleaners and drainers, combined. | 5. Wool-washing machines. |

DIVISION XXVIII.

EXAMINER ANDERSON.

CLASSES.—123, Internal-Combustion Engines; 60, Miscellaneous Heat-Engine Plants.

CLASS 123.—INTERNAL-COMBUSTION ENGINES. (XXVIII.)

(For definitions see Bulletin No. 17, p. 14.)

Subclasses.

198. Accessories.
26. Additional air-supply.
48. Adjustable combustion-chamber.
38. Atmospheric.
27. Burning by highly-compressed air.
119. Charge-forming devices—
 131. Atomizers—
 132. Constant-level.
 124. Automatic dilution.
 121. Combined oil and gas.
 128. Constant oil-supply.
 120. Gas and air mixers.
 123. Governor-controlled.
 122. Heating.
 141. Mixing devices.
 126. Movable carrier.
 127. Multiple oil-supply.
 133. Oil-evaporating—
 135. Extended oil-film.
 134. Submerged air-supply.
 136. Oil-feeding—
 139. Pumps—
 140. Governor-controlled.
 137. Reciprocating.
 138. Rotary.
 125. Oil-intercepting.
 142. Safety devices.
 129. Valve-controlled oil—
 130. Positively-operated.
2. Combined devices—
3. Generating plants.
4. Internal-combustion and fluid-pressure—
5. Fluid-transmission.
6. Waste-heat utilizing.
191. Combustion-chambers.
192. Compensating devices.
21. Convertible cycle.
170. Cooling—
171. Air-cooled.
172. Combined packing and cooling.
173. Cylinder, jacket, and head construction.
174. Heat-dissipating devices.
175. Liquid-impelling devices.
176. Rod and piston.
178. Temperature-regulators.
177. Valve.
193. Cylinder and piston construction.
- Double-acting—
63. Four-cycle.
61. Two-cycle—
62. Combined pump and motor cylinder.
194. Exhaust treatment.
75. Four-cycle—
84. Adjacent supply and exhaust valves.
85. Alined supply and exhaust valves.
87. Longitudinal valve and lever.
86. Opposite supply and exhaust valves.
81. Oscillating valve.
82. Rotating side shaft.
83. Rotating transverse shaft.
80. Rotating valve.
76. Scavenging.
79. Single puppet-valve.
77. Single-revolution.
89. Transverse valve and bell-crank.
88. Transverse valve and lever.
78. Variable clearance.
195. Frame construction.
46. Free piston.
24. Gunpowder.
7. Hammers.
22. Internal combustion and air.
143. Igniters—
144. Flame.
145. Incandescent—
146. Valve-controlled.
- Sparkers—
165. Circuit-closers—
167. Multiple circuit.
168. Primary and secondary control.
166. Single circuit.
150. Combined adjusting and exhaust-regulating.
151. Combined sparker and valve.
152. Combined valve and sparker operating.
149. Dynamos.
148. High-tension.
147. Low-tension.
153. Make-and-break—
164. Adjusting mechanism.
154. Electromagnetic.
160. Oscillating electrode.
162. Piston-operated.
155. Pneumatic.
156. Reciprocating electrode.
158. Rocking and rigid electrodes.
159. Rocking and yielding electrodes.
157. Rocking-electrode hammer-action.
161. Rotary electrode.
163. Stationary-electrode structure.
169. Plugs.
19. Liquid piston.
196. Lubricators.
1. Miscellaneous.
52. Multiple cylinder—
59. Cylinders longitudinal—
60. Cranks coincident.
54. Cylinders offset.
56. Cylinders opposite.
58. Cylinders parallel.
55. Cylinders radiating.
57. Cylinders tandem.
53. Simultaneous expansion.
36. Multiple expansion.
37. Multiple explosion.
51. Multiple piston.
39. Non-compression.
- Oil-engines—
34. External-vaporizing—
35. Four-cycle.
30. Internal-vaporizing—
32. Forced oil-supply—
33. Oil-atomizing.
31. Four-cycle.
- Pump-supply to air-inlet—
28. Four-cycle.
29. Two-cycle.
42. Oscillating cylinder.
18. Oscillating piston.
50. Reciprocating cylinder.
41. Reversible.
8. Rotary—
11. Alternating pistons.
12. Geared pistons.
9. Impact.
10. Reaction.
13. Rotating abutment.
14. Sliding abutment.
16. Sliding piston.
15. Swinging abutment.
17. Swinging piston.
45. Rotary reciprocating piston.
43. Rotating cylinder—
44. Radial.
64. Six-cycle.
23. Solid fuel.

CLASS 123.—Continued.

97. Speed-regulators—
117. Automatically-controlled igniting device.
- Charge-omitting—
- Centrifugal governor—
113. Exhaust-valve regulating.
111. Supply and exhaust valve regulating.
112. Supply - valve regulating.
- Inertia-governor—
116. Exhaust-valve regulating.
114. Supply and exhaust valve regulating.
115. Supply - valve regulating.
106. Charge-proportion varying—
107. Exhaust-regulating.
105. Charge-rejecting.
- Charge - volume varying—
110. Automatic cut-off.
109. Supply-valve lift-regulating.
- Throttling.
108. Combined types—
99. Charge varying and omitting.
101. Charge volume and proportion varying.
102. Electrical.
118. Ignition-omitting.
98. Manually-controlled.
103. Pneumatic.
104. Supply-pump regulating.
179. Starting devices—
180. Combustible - mixture supply.
181. Compressed-air supply.
182. Compression-relieving.
- Starting devices—
183. Gunpowder.
184. Igniters.
185. Mechanical—
187. Motors.
186. Spark-delaying.
20. Steam convertible.
197. Transmission mechanism.
65. Two-cycle—
66. Combined pump and motor cylinder.
67. Divided pump discharge.
70. Pump and cylinder adjacent.
71. Pump and cylinder co-axial.
72. Pump and cylinder inclined.
68. Pump compression.
- Rear compression—
73. Crank-case.
74. Cylinder.
69. Separate air and gas pumps.
40. Vacuum-exhaust.
49. Valve-controlled combustion-chamber.
47. Valved piston.
90. Valve-operating mechanism—
91. Four-cycle—
93. Double-loop cam.
94. Intermittently-operated cam.
95. Intermittently-operated tappet.
92. Pneumatic.
96. Two-to-one gearing.
188. Valves—
189. Detachable.
190. Rotary.
25. Water and hydrocarbon.

CLASS 60.—MISCELLANEOUS HEAT-ENGINE PLANTS.

(XXVIII.)

(For definitions see Bulletin No. 19, p. 8.)

Subclasses.

2. Atmospheric and solar.
3. Boat and torpedo.
27. Buoyancy.
40. Fluid compounds.
26. Gravity.
- Hot air—
17. Constant mass—
18. Vapor.
- Continual air-supply—
14. Combustion-products injected—
15. Explosion.
16. Water-injected.
11. Liquid-heated—
12. Spray.
25. Liquefied gas.
1. Miscellaneous.
28. Pressure-generators—
35. Air—
36. Combustion-products injected—
37. Explosion.
39. Electric heater.
38. Moisture-injected.
34. Liquid bath.
- Steam—
29. Air-injected.
- Pressure-generators—
- Steam—
- Combustion-products injected—
30. Explosion.
33. Flasher type.
31. Liquid and gaseous fuel.
32. Solid fuel.
4. Rotary engine—
5. Injector.
23. Separate fluid—
24. Waste heat.
- Steam—
9. Air-injected—
10. Auxiliary.
8. Combustion-products injected.
- Vacuum—
19. Air—
20. Vapor.
21. Ejector.
22. Explosion.
6. Volatile liquid—
7. Liquid-burner.

DIVISION XXIX.

EXAMINER MORRIS.

CLASSES.—147, Coopering; 227, Fire-Escapes; 228, Ladders; 108, Roofs; 157, Wheelwright-Machines; 20, Wooden Buildings; 143, Wood-Sawing; 142, Wood-Turning; 144, Woodworking; 145, Wood-working-Tools.

CLASS 147.—COOPERING. (XXIX.)

(For definitions see Supplement No. 1, p. 2580.)

Subclasses.

- | | |
|---------------------------------|-----------------------------------|
| 4. Barrel-compressing machines— | 8. Hoop-drivers— |
| 5. Cone. | 9. Cam-operated. |
| Barrel-head making— | 10. Hydraulic and steam. |
| Fixed chuck— | 7. Lever-operated. |
| 37. Rotary scribing-tool, | 11. Miscellaneous. |
| 41. Hand-scribers, | 12. Screw-operated. |
| 36. Miscellaneous, | Weight. |
| Rotary chuck— | 45. Hoop-machines— |
| 39. Chisel-cutter, | 46. Lapping and pointing, |
| 40. Double molding-cutter, | 43. Lock-cutting. |
| 38. Rotary saw, | 44. Miscellaneous, |
| 1. Barrel-making machines. | Racking. |
| 46. Basket-forming. | Jointing staves— |
| 47. Basket forming and nailing. | 28. Converging saws, |
| 42. Chamfering-tools. | 29. Disk cutter-head, |
| Crozing and chamfering barrels— | Inclined molding-heads— |
| Clamped barrel— | 26. Vertically-movable bed, |
| 13. Rotary cutter-head, | 35. Longitudinal cutter-cylinder, |
| 24. Hand-crozes. | 25. Miscellaneous. |
| Rotating barrel— | 27. Rotary cutter— |
| 14. Expandible cutter-head, | Pattern-feed, |
| 15. Rotary cutter-head, | Single saw— |
| 16. Sliding tool, | Sliding carriage, |
| 17. Swinging tool. | 31. Titting carriage, |
| Crozing staves— | 32. Slicing-knife, |
| 18. Miscellaneous, | 33. Sliding plane, |
| Rotary cutter— | Traveling saw— |
| 19. Endless stave-carriage, | 34. Curved guide, |
| 20. Sliding stave-carriage, | 3. Setting-up formers. |
| 22. Swinging, | 2. Setting-up machines. |
| 21. Swinging stave-carriage, | 35.5. Shaping staves. |
| 23. Sliding knife, | 49. Truss-hoops. |
| 6. Heading-machines. | |

CLASS 227.—FIRE-ESCAPES. (XXIX.)

Subclasses.

- | | |
|------------------------------------|---------------------------------------|
| 1. Automatic speed-governors— | 18. Lazy-tongs— |
| 34. Centrifugal, | 19. Windlass. |
| 2. Escapement-check, | 20. Parachutes. |
| 3. Fly-check, | 21. Portable spars and towers. |
| 4. Fluid-check. | 22. Pulley and brake. |
| 5. Balcony. | 23. Reel— |
| 6. Body-catchers. | End-brake, |
| 7. Chutes. | 24. Peripheral-brake. |
| 8. Climbers. | 25. Rope-brakes, grip-jaw— |
| 9. Convertible furniture. | 26. Screw-operated, |
| 10. Endless carriers. | 27. Wedge. |
| 11. Fire-escapes. | Rope-brakes— |
| 12. Guided hoists. | 28. Tortuous, |
| 13. Hand-protectors. | 29. Tortuous and grip, |
| 14. Hoist-rope-supporting trolley. | 30. Tortuous and screw-operated grip. |
| 15. Lazy-tongs— | 31. Shooting-lines. |
| 16. Rack-and-pinion, | 32. Sliding-poles. |
| 17. Screw, | 33. Stairway-towers. |

CLASS 228.—LADDERS. (XXIX.)

Subclasses.

- | | |
|---|--------------------------|
| 1. Building-attached— | 17. Propped— |
| 2. Independent rungs and steps, | 18. Hinged sections, |
| 3. Non-collapsible foldable. | 19. Separable sections, |
| 4. Collapsible. | 20. Slidable sections. |
| 5. Feet. | 21. Scaling. |
| 6. Flexible— | 22. Separable sections. |
| 31. Jointed sections, | 23. Shutter. |
| 7. Reel— | 24. Single-stile. |
| 9. Jointed sections, upwardly-extensible, | 25. Slidable sections— |
| 10. Single-stile. | 26. Stops. |
| 11. Guards. | 27. Store-service. |
| 12. Hinged sections. | 28. Trap-door operating. |
| 14. Ladders. | 29. Trolley. |
| 15. Propped— | 28. Truck. |
| 16. Collapsible, | 29. Trussed. |

CLASS 108.—ROOFS. (XXIX.)

(For definitions see Supplement No. 2, p. 2557.)

Subclasses.

- | | |
|----------------------------|------------------------|
| 2. Adjustable. | Metallic— |
| 5. Car— | 17. Shingle, |
| 14. Fabric-lined, | 20. Standing-seam— |
| 15. Metal-lined. | 21. Capped. |
| 6. Composite— | 1. Miscellaneous. |
| 6.5. Fireproof. | 4. Observatory-domes, |
| 28. Eaves-troughs— | 3. Portable. |
| 29. Hangers, | 24. Ridges. |
| 30. Strainers. | 16. Skylights— |
| 7. Fabric. | 31. Operating devices. |
| 27. Fenders. | 8. Slate and shingle— |
| 26. Flashings. | 9. Laying. |
| 12. Lap-joint. | 11. Thatch. |
| Metallic— | 10. Tile. |
| 22. Interlocking lap-seam, | 23. Trusses. |
| 13. Miscellaneous, | 25. Valleys. |
| 18. Rib-seam— | |
| 19. Capped, | |

CLASS 157.—WHEELWRIGHT-MACHINES. (XXIX.)

(For definitions see Supplement No. 1, p. 2583.)

Subclasses.

- | | |
|-----------------------------|------------------------|
| 13. Axle-box presses. | 5. Tire-setters— |
| 1. Miscellaneous. | 6. Rubber tires, |
| 2. Rim-compressors. | 7. Trestles and tanks. |
| 12. Spoke-extractors. | 8. Tire-tighteners— |
| 3. Spoke-setters— | 9. Felly-expanders— |
| 4. Work holders and guides. | 10. Spoke-clamping. |
| 11. Tire-removers. | |

DIVISION XXIX.—CONTINUED.

CLASS 20.—WOODEN BUILDINGS. (XXIX.)

(For definitions see Supplement No. 1, p. 2577.)

Subclasses.

- | | |
|-----------------------------|-----------------------------|
| 77. Ceiling-centerpieces. | Scaffolds— |
| 90. Composite boards. | Brackets— |
| 91. Compound lumber. | 86. Shingling, |
| 76. Corner-shields. | 81. Miscellaneous, |
| 11. Door and window | 82. Swinging, |
| frames— | 83. Trestles, |
| 12. Movable jambs. | 87. Window. |
| 71. Door and window | Shutters— |
| guards— | 59. Awning, |
| 72. Body-attached. | 58. Miscellaneous, |
| 70. Door and window | 60. Registering-slide, |
| troughs. | Slats— |
| Doors— | 63. Fixed, |
| 38. Braces, | 62. Pivoted, |
| Car— | 61. Sliding. |
| 37. Door construction, | 78. Slatted floor covering. |
| Grain— | 92. Splices and joints. |
| 28. Horizontal-swing, | 79. Stair-covers. |
| 27. Miscellaneous, | 10. Stairs. |
| 29. Pivoted side-tilt, | 64. Thresholds. |
| 30. Removable, | 89. Veneering. |
| 31. Side-slide. | 4. Wall construction. |
| 32. Vertical-slide— | 5. Weather-boarding. |
| 33. Pivoted-guide, | Weather-strips— |
| 34. Vertical slide and | Hinged— |
| swing, | 65. Sills, |
| 21. Miscellaneous, | 66. Spring, |
| Sliding— | 69. Packing, |
| 26. Cleats, | 68. Sliding. |
| 25. Guide-closures, | 57. Window-cranes. |
| 23. Lateral move- | Windows— |
| ment— | 41. Car, |
| 24. Link-support, | 40. Miscellaneous, |
| 22. Miscellaneous, | 56. Sash construction, |
| 35. Door construction— | Sashes— |
| Removable-panel, | 54. Cushioned, |
| 16. Miscellaneous, | 52. Sliding-sash, |
| 17. Oppositely-hinged, | Sliding and swinging |
| 18. Rotating, | sash— |
| Sliding— | 43. Cord-fastener pivot, |
| 20. Jointed, | 44. Guide-rod pivot, |
| 19. Miscellaneous, | Horizontally-pivoted |
| 39. Wickets. | frame— |
| Floors— | 45. Sliding-sash, |
| 7. Composite, | 42. Miscellaneous, |
| 8. Interlocking, | Separable-hinge— |
| 9. Joist-bridging, | 46. Side-swing, |
| 6. Miscellaneous. | 47. Vertical-swing, |
| 95. Framing-sockets. | Sliding-frame— |
| 94. Joist connections. | Vertically-pivoted |
| 13. Lathing— | sash, |
| 14. Lath-holders. | Sliding-stile— |
| 73. Mantels. | 49. Horizontally - piv- |
| 74. Moldings. | oted sash, |
| 75. Mosaics and inlaying. | 50. Vertically - pivoted |
| 93. Nail-hole plugs. | sash, |
| 15. Panels and wainscoting. | Vertically - pivoted |
| 2. Portable houses— | frame— |
| 3.5. Telephone-booths, | Sliding-sash, |
| 3. Voting-booths. | 51. Storm, |
| 96. Post-bases. | 55. Swinging-sash. |
| Scaffolds— | 53. Wooden buildings— |
| 88. Binders, | 1. Miscellaneous. |
| 84. Brackets— | 72.5. Wooden columns. |
| 85. Ladder, | |

CLASS 143.—WOOD-SAWING. (XXIX.)

(For definitions see Supplement No. 1, p. 2599.)

Subclasses.

- | | |
|--------------------------------|-------------------------------|
| 16. Arc-saw machines. | Reciprocating-saw ma- |
| 17. Band-saw machines— | chines— |
| 27. Automatic tension-regu- | 81. Vibrated-saw— |
| lators, | 82. Lever-driven, |
| 28. Catchers, | 83. Pivoted guides. |
| 18. Centered-log, | 4. Resawing-machines— |
| 19. Horizontal-saw, | 5. Band-saw. |
| 20. Inclined, | 91. Sawbucks. |
| 21. Multiple idlers, | 158. Saw cleaners and oilers. |
| 22. Multiple-saw, | 159. Saw-guards. |
| 29. Pulley cleaners and lu- | 160. Saw-guides— |
| bricators, | 161. Back-disk, |
| 30. Pulleys, | 162. Back-roller, |
| 25. Reciprocating-carriage, | 163. Drag, |
| 23. Retarded-idler, | 164. Oilers, |
| 31. Saw-lead adjustments, | 165. Pivoted-arm, |
| 26. Special-feed, | 166. Sliding-arm, |
| 24. Tilting-frame. | 167. Work-engaging. |
| 32. Chain-saw machines. | Saw-hanging— |
| 33. Circular-saw machines— | 155. Circular-saw, |
| 35. Adjustable-saw— | 156. Reciprocating-saw. |
| 36. Angular, | 157. Sawing-machine ap- |
| 37. Lateral, | pliances. |
| 38. Angular— | 105. Sawmill-carriages— |
| 39. Centered-log, | 106. Friction-feed— |
| 40. Auxiliary-saw, | 107. Disk, |
| 49. Chain-feed, | 108. Motor-feed, |
| 41. Drop-saw, | 109. Offsetting— |
| 42. Knife-disk, | 110. Draft-operated, |
| 50. Lathe-feed. | 111. Friction-operated, |
| 34. Pile-cutting, | 112. Lever-operated, |
| 43. Portable, | 113. Track-operated. |
| 51. Pusher-feed, | 125. Sawmill-dogs— |
| 52. Reciprocating-car- | Lever, |
| riage— | 127. Lever-and-cam, |
| 53. Automatic-feed, | 128. Lever and cooperating |
| 54. Mechanically-oper- | gears, |
| ated, | 129. Lever, gear and rack, |
| 44. Rim-driven, | 130. Lever, pawl and rack, |
| 55. Roller-feed— | 131. Screw. |
| 56. Gang, | 114. Sawmill set-works— |
| 57. Rotary-carriage, | 124. Appliances, |
| 48. Special-feed, | 115. Automatic, |
| 45. Successive, | 116. Direct-actuated, |
| 58. Swinging-carriage, | 117. End dogs, |
| 46. Swinging-saw, | 118. Fluid-operated, |
| 59. Tilting work-support, | 119. Pawl-and-rack, |
| 47. Traveling-saw. | 120. Power-operated, |
| 1. Combination-machines. | 121. Spring-retracted, |
| 2. Hoop-pole machines— | 122. Supplemental support, |
| 3. Band-saw. | 123. Wedge. |
| 96. Log deck-blocks. | 133. Saws— |
| 92. Log-transfers— | 134. Bent, |
| 93. Pusher-blocks, | 135. Chain, |
| 94. Trough-and-kicker. | 136. Dishd, |
| 97. Log-turners— | 137. Expansion-aperture, |
| 98. Bar-and-chain, | 138. Gummung-aperture, |
| 99. Bar and inclined pistons, | 139. Sectional, |
| 100. Bar and parallel pistons, | 140. Smoothing. |
| 101. Bar-and-piston, | 168. Saw-table gages— |
| 102. Endless, | 169. Angular-adjustment— |
| 103. Hook, | 170. Vertical, |
| 104. Hook-and-chain. | 171. Curve-cutting, |
| 95. Log turners and deck- | 172. Markers, |
| blocks. | 173. Roller, |
| 86. Miter-boxes— | 174. Sliding— |
| 87. Adjustable— | 175. Link, |
| 88. Biplane, | 176. Rack-and-pinion. |
| 89. Swinging saw-guide, | 132. Saw-tables. |
| 90. Swinging work-guide. | 141. Saw-teeth— |
| 6. Mitering-machines— | 142. Crosscut, |
| 7. Reciprocating-saw. | 143. Planer, |
| 60. Reciprocating-saw ma- | 144. Reversible. |
| chines— | 145. Saw-teeth, fastenings— |
| 61. Drag— | 146. Bridge-plate, |
| 62. Automatic-return, | 147. Cap— |
| 63. Crank, | 148. Separable-bit, |
| 64. Lever, | 149. Key, |
| 65. Lever-and-bow, | 150. Key and locking-plate, |
| 66. Lever and gears, | 151. Locking-plate, |
| 67. Lever and lazy-tongs, | 152. Spring-latch, |
| 68. Motor, | 153. Wedge, |
| 69. Oscillatory, | 154. Wedge and locking- |
| 79. Laterally-adjustable | plate. |
| arm, | 8. Shingle-machines— |
| 80. Piston-connected, | 10. Belt-feed, |
| 84. Roller-feed, | 11. Dog-and-step feed, |
| 70. Scroll— | 9. Reciprocating-saw, |
| 71. Frame, | 12. Roller-feed, |
| 72. Free-end saw, | 13. Tilting-gage, |
| 73. Spring-return, | 14. Tilting-table— |
| 74. Swivel-saw, | 15. Rotary carriage. |
| 75. Special-cut— | 85. Tubular-saw machines. |
| 76. Pattern-guide, | |
| 77. Pivoted work-holder, | |
| 78. Tilting saw-frame, | |

DIVISION XXIX.—CONTINUED.

CLASS 142.—WOOD-TURNING. (XXIX.)

(For definitions see Supplement No. 1, p. 2586.)

Subclasses.

- | | | |
|------------------------------------|-------------------|---|
| 55. Attachments. | Circular section— | 34. Circular section— |
| 47. Carriage-feed. | | Spiral-grooving— |
| | Circular section— | Cutter— |
| 17. Automatic spindle lathes— | | Rotary— |
| 20. Chute-feed. | | 23. Roller-feed. |
| 18. Endless-feed— | | 23. Hollow cutter-head. |
| 19. Disk. | | 54. Hollow mandrels. |
| Clamped-work— | | 53. Lathe-centers. |
| Cutter, chisel— | | 1. Miscellaneous. |
| 46. Longitudinally-mov-
able, | | Pattern-section— |
| Hollow cutter-head— | | Cam-controlled— |
| End-turning, | | Cutter— |
| 45. Cutter— | | 12. Laterally-movable, |
| 42. Chisel— | | 6. Laterally and longitu-
dinally movable, |
| 43. Pattern— | | 14. Longitudinally - mov-
able, |
| 44. Disk. | | Rotary— |
| 38. Pattern-guide— | | 10. Fixed bearings, |
| 39. Rotary. | | Clamped-work— |
| 40. Rotary— | | Cutter, chisel— |
| 41. Pattern, | | 8. Laterally and longitu-
dinally movable, |
| 37. Pattern-guide, | | Cutter— |
| Slicing— | | 9. Rotary, |
| 36. Longitudinally - mov-
able, | | Copying— |
| Cutters— | | Cutter— |
| Chisels, plain and pat-
tern— | | 13. Laterally-movable, |
| 21. Pattern-guide, | | 7. Laterally and longitu-
dinally movable, |
| Rotary and chisel— | | 15. Longitudinally - mov-
able, |
| 22. Pattern. | | Rotary— |
| 32. Hollow cutter-head— | | 11. Fixed bearings, |
| Cutter, chisel— | | 3. Many-spindle lathes, |
| 31. Pattern— | | Oval-form— |
| 30. Radially-movable, | | 16. Guided chucks— |
| 29. Radially-movable— | | 51. Counterpoises. |
| 27. Pattern-guide— | | Polygonal section— |
| 28. Rotary. | | 2. Annular work-holders— |
| 4. Many-spindle lathes— | | 52. Chucks. |
| 5. Automatic spindle-feed. | | Steady-rests— |
| Spiral-grooving— | | 50. Yielding. |
| Cutter— | | 49. Tool-rests. |
| 35. Chisel. | | 48. Tool-rests and work-sup-
ports. |
| 26. Rotary— | | 56. Turning-tools. |
| Hollow-mandrel. | | Work-holders— |
| 25. Pattern-guide, | | 57. Socket. |
| 24. Rack-and-pinion
feed, | | |
| 33. Rack-and-pinion
feed, | | |

CLASS 144.—WOODWORKING. (XXIX.)

(For definitions see Supplement No. 1, p. 2591.)

Subclasses.

- | | |
|--|---|
| 306. Bench-dogs— | 289. Clamps— |
| 307. Clamping. | 290. Bench. |
| 308. Removable. | 294. Box-joint. |
| 92. Boring— | 296. Door-supporting. |
| Brush— | 295. End and partition, |
| 94. Multiple-bit. | Miter— |
| 95. Rotating work-holder. | 292. Multiple-joint. |
| 96. Tilting work-holder. | 293. Single-joint. |
| 113. Hollow-auger. | 297. Portable— |
| Long-work— | 299. Extensible-beam. |
| 107. Automatic step-feed. | 300. Parallel-screw— |
| 108. Hand-operated step-
feed. | 301. Quick-action. |
| 109. Traveling-tool. | 302. Pivoted-lever. |
| 110. Multiple— | 298. Ship-planing. |
| 111. Double-ended bit-
stock. | 303. Straight-beam adjust-
able-jaw. |
| 112. Relative lateral adjust-
ment. | 304. U-beam— |
| Portable— | 305. Quick-action. |
| Hand— | 291. Rectangular r-frame-
work. |
| 106. Angularly-adjust-
able. | 1. Combined machines— |
| 105. Overhead-work. | 35. Boring and sawing. |
| 93. Special-work. | 36. Planing and matching. |
| 92. Swinging. | 37. Planing, matching, and
dividing. |
| 91. Wheel-felly. | 38. Planing and polishing. |
| 97. Wheel-hub— | 39. Planing and sawing. |
| Axial— | 40. Riving and shaving. |
| Stationary bit-stock. | 41. Shaping and dividing. |
| Stationary work— | 42. Slicing and scoring. |
| Inclined bit-stock. | 43. Slicing and shaving— |
| Opposite rotary
bit-stock | 44. Converging knives. |
| | 45. Tenoning and boring. |
| | 46. Turning and boring. |

CLASS 144.—Continued.

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|---|---|
| Combined machines— | 78. Mortising— |
| Turning and polishing. | Hollow-chisel and bit— |
| 48. Turning and sawing. | 79. Portable. |
| 284. Cork and bung presses. | 67. Multiple-chisel— |
| 251. Cutter-guards. | 68. Portable. |
| 252. Cutter-hoods and dust-
conveyers. | 80. Oscillating-chisel— |
| Cutters— | 81. Portable. |
| Rotary— | 82. Rotary-cutter— |
| 241. Bits. | 83. Portable. |
| Cylindrical— | 84. Work-supports. |
| 230. Slotted bit-seat. | 207. Oiler-peelers. |
| 221. Spiral-bit. | Planers— |
| Disk— | 129. Bed adjustments, |
| 234. Eccentric segmental
bit. | Beveling— |
| 237. Gang. | 124. Lateral. |
| 236. Multiple— | 125. Inclined work-
pocket. |
| Pattern. | 126. Shifting-cutter. |
| Multiple clamping-
disks— | 127. Shifting work-sup-
port. |
| 232. Pivoted-bit. | 130. Cutter adjustments, |
| 233. Shank-bit. | Endless-bed. |
| 231. Tangential-bit. | 128. Endless-cutter carrier, |
| Side-attached bit— | Miscellaneous. |
| Edge-cutting. | 114. Reciprocating-cutter— |
| 235. End-thrust. | 121. Lateral. |
| 219. Frusto-conical. | Rotary-cutter— |
| 220. Miscellaneous. | Cylinder— |
| 218. Polygonal— | 117. Bearings. |
| Concave bit-seat. | 131. Double surfacers, |
| 226. Convex bit-seat. | Disk— |
| 225. Plane bit-seat. | 118. Traveling. |
| 224. T-slot bit-clamp. | 119. Scrapers. |
| Radial arms— | 120. Stationary-cutter— |
| Plane bit-seat. | 132. Bit adjustments. |
| 228. Slotted bit-seat. | 309. Processes. |
| 229. Saw— | 196. Punching-cutters— |
| Distorted. | 197. Fixed-die. |
| Double— | 182. Riving— |
| 222. Intermediate-
cutter. | 183. Beveling. |
| Single— | 184. Fixed-knife. |
| Side-cutter. | 208. Rousing bark. |
| 223. Wobble. | Shaping— |
| 238. Solid. | 135. Box-trimming. |
| 240. Dovetailing— | 153. Curved-bar work-sup-
port. |
| 86. Consecutive cutters. | 152. Curved-work guide. |
| 87. Frusto-conical bit. | 136. Grooving. |
| 88. Inclined-chisel. | 134. Miscellaneous. |
| 89. Inclined rotary-disk. | 146. Oscillating-knife. |
| Feed and presser mech-
anisms— | Pattern— |
| 245. Blank-feeders. | Cam— |
| 242. Miscellaneous. | 142. Cutter-guiding. |
| 243. Presser-bars and chip-
breakers— | Work-guiding. |
| 244. Sectional. | 143. Crank-guided cutter. |
| Rolls— | 140. Gear-guided cutter. |
| Feed— | 137. Miscellaneous. |
| 246. Miscellaneous. | 138. Polygonal forms, in-
dexed-work. |
| 247. Spring-pressed. | 139. Rotating-table, shift-
ing-cutter. |
| 248. Weighted. | Templet— |
| 249. Presser. | 144. Cutter-guiding— |
| 250. Sectional. | Templets. |
| 133. Gaining. | 144.5. Work-guiding. |
| 280. Glue-applying apparatus. | 149. Pattern-knife, swinging-
frame. |
| 279. Glue-applying and pressing
apparatus. | 147. Reciprocating-knife. |
| 278. Machine-work clamps | 148. Reversible-cutter. |
| 90. Matching— | 150. Rotary-cutter, end-
thrust. |
| 91. End. | 154. Rotary work-carrier. |
| 50. Match-making— | 151. Universally-jointed cut-
ter-shaft. |
| 61. Box-filling. | Shaving— |
| 59. Coiling. | 155. Fixed-knife— |
| 57. Cutting and coiling. | 156. Circular knife-block. |
| 54. Cutting and framing— | 157. Drum-feed. |
| 55. Die-punches— | 158. Roller-feed. |
| 56. Fixed. | 159. Knife pair— |
| 52. Cutting, framing, and
dipping— | 160. Gripper. |
| 53. Die-punches. | 161. Roller-feed. |
| 60. Dipping. | 162. Slicers— |
| 65. Dipping-frames— | 167. Arc-cut. |
| 62. Emptying. | Beveling— |
| 63. Filling— | 168. Alternate end-feed. |
| Hopper-feed. | 169. Shifting knife-guide. |
| 58. Framing and dipping. | 170. Tilting-gage. |
| 66. Splint-feed mechanism. | 171. Tilting-table. |
| 51. Wax and paper. | Cylinder— |
| 49. Miscellaneous single-oper-
ation machines. | 172. Grooving. |
| 216. Miter-cutters— | 174. Radial-knife. |
| 217. Angle-knife. | 175. Fixed-knife. |
| Mortising— | 180. Hopper-feed. |
| 69. Auger-cutter— | 163. Reslicers. |
| 71. Automatic step-feed. | 181. Roller-feed. |
| 70. Portable. | 176. Rotary-disk. |
| 72. Chain-cutter— | Stay-log— |
| 73. Portable. | Oscillating. |
| 75. Chisel— | 177. Reciprocating. |
| Boring and mortis-
ing. | 178. Screw-feed. |
| 76. Portable. | Strip-cutting— |
| 77. Chisel-reversers. | Converging knives— |
| | Lathe-feed. |

DIVISION XXIX.—CONTINUED.

CLASS 144.—Continued.

186. Slicers—	192. Splitting and bundling.
Strip-cutting—	Tenoning—
Lathe-feed.	199. Blind-slat—
185. Slivering—	200. Rotary cutters,
189. Gang-saw,	201. Rotary gaining-out-
Plunger and fixed-knife,	ters—
190. Receiving and handling	202. Chisel pair,
devices,	203. Rotary gaining-out-
191. Scoring-plane—	ters—
187. Endless-belt,	204. Multiple-tenon.
188. Rotary.	205. Tenon-turning—
2. Special-work machines—	206. Wheel-spoke.
3. Combined—	209. Veneer-lathes—
4. Circular-section,	210. Convertible,
5. Blind and sash cut-	211. Inclined knives,
ting—	212. Knives and knife-blocks,
6. Relining,	213. Presser bars and rolls,
7. Box-blank,	214. Stay-logs,
8. Chair-round tenoning	215. Strip-cutting attach-
and sawing,	ments.
9. Clothes-pin,	281. Veneer-presses—
10. Conveyer-flight,	283. Molding,
11. Handle,	282. Roller.
12. Pin,	Wood-bending—
13. Shingle,	254. Bending and drying,
14. Spool,	255. Bending-rollers,
17. Wheel-felly boring and	270. Bends,
sawing,	269. Clamps,
16. Wheel-hub,	Former—
18. Wheel-spoke tenoning	Fixed—
and sawing,	259. Collapsible,
15. Wheel tenoning and	261. End-thrust,
boring,	262. Radial arm and
19. Window-stile-pocket	roller,
cutting,	266. Strap,
Single or combined—	264. Strap-and-lever,
Box-hooping,	263. Strap-and-windlass,
25. Comb-teeth cutting,	265. Strap-and-screw,
21. Disk-cutting—	267. Pivotal—
22. Blank sawing, feed-	268. Coiling,
ing, and punching,	258. Hoop-gaging,
23. Rotary tubular-cut-	256. Presses—
ter,	257. End compressors,
24. Sweep-cutter,	271. Steaming,
20. Disk cutting and bor-	Wood-ornamenting—
ing,	276. Articles,
27. Hinge-seat cutting,	272. Embossing—
28. Pencil-wood making,	273. Die-rollers,
29. Piano-hammer felting,	274. Heat-applying,
30. Pin-pointing,	275. Graining,
31. Pin-setting,	277. Processes.
32. Screw-driving,	280. Work-benches—
33. Tray-making,	287. Adjustable stock-rest.
34. Tree-felling,	285. Work-benches and tool-
193. Splitting—	chests combined.
194. Self-feeding—	253. Work-guides.
196. Roller-and-belt.	288. Work-holding stands.

CLASS 145.—Continued.

22. Cant-dogs.	Handles—
23. Chalk-line holders and	Socket-fastenings—
chalkers.	Threaded-tang.
24. Chisels—	99. Transverse-screw
25. Compound,	clamp—
26. Gage.	100. Integral-socket,
27. Cue-trimmers.	101. Split-socket.
28. Drawing-knives.	31. Handsaws—
29. Drawing-shaves—	35. Attachments,
49. Single-handle.	32. Truss-frame,
29. Hammers—	33. U-frame—
30. Nail-placers.	34. Extensible.
61. Handles—	36. Mallets.
65. Cross-bar—	1. Miscellaneous.
77. Ratchet,	Nail-extractors—
79. Fastenings—	44. Claw-bar—
80. End-cap,	45. Pivoted-fulcrum,
81. Wedge—	40. Hammer-and-anvil,
82. Screw-expanded,	39. Holding-hook,
Hollow—	37. Miscellaneous,
64. Retractable-tool,	Nipper—
62. Magazine—	43. Lever-operated,
63. Registering chambers,	42. Wedge-operated,
75. Ratchet-and-pawl,	41. Nut and screw lifters,
76. Ratchet-clutch,	38. Pivoted grapple-bar.
78. Shield attachments,	46. Nail-sets.
83. Socket-fastenings—	114. Reamers.
84. Bevel-closing—	Saw-handles—
85. Axial-screw—	109. Double-grip,
86. Spring-retracted	108. Miscellaneous,
jaws,	113. Scroll.
87. Rotating-ring—	Spindle—
88. Spring-retracted	112. Longitudinal-socket
jaws,	and tightening-bar,
92. Screw-cap—	110. Side-clamping plates,
93. Spring-retracted	111. Transverse-socket and
jaws,	tightening-bar.
91. Screw-cone,	47. Scrapers.
89. Screw-ring—	48. Scraping-planes.
90. Spring-retracted	50. Screw-drivers—
jaws,	Holding attachments—
94. Sliding-ring—	52. Side-gripping jaws,
95. Spring-retracted	Shell-guide—
jaws,	51. Spring-operated.
96. Cam-closing—	53. Spiral-tool drivers—
97. Spring-retracted	Forward-pressure—
jaws,	Reversible-rotation.
107. Friction-grip,	55. Spokeshaives—
98. Lever-closing,	56. Adjustable mouth-
104. Pivoted-latch,	pieces,
102. Shouldered-tang and	57. Beading-hits,
cap,	58. Gage.
103. Shouldered-tang and	59. Staple-pullers.
side-socket,	115. Tenon-cutters.
105. Sliding-latch,	60. Wedges.

CLASS 145.—WOODWORKING-TOOLS. (XXIX.)

(For definitions see Supplement No. 1, p. 2594.)

Subclasses.

Augers—	Bench-planes—
127. Adjustable cutting-flip,	16. Bit-clamps,
123. Countersinks,	17. Bits,
128. Detachable cutters,	6. Chamfering,
124. Expanding, reverse-	7. Core-box,
taper,	9. Flexible-face,
128. Gage attachments,	20. Gage attachments,
116. Miscellaneous,	19. Handle attachments,
Pod,	10. Irregular-work,
125. Secondary cutters,	18. Lubricating attach-
122. Square-hole cutters,	ments,
121. Sweeps,	5. Miscellaneous,
119. Tubular—	8. Strip-cutters.
120. Core-cutters,	60.5. Bit-frames.
117. Twist.	Bit-stocks—
2. Axes—	66. Miscellaneous,
3. Detachable-bit,	70. Ratchet—
4. Gage attachments.	72. Pivoted pawls,
Bench-planes—	73. Sliding pawls—
15. Adjustable mouth-	Changeable-face,
pieces,	74. Straight-crank arm.
11. Bit adjustments—	Straight—
Angular,	67. Side-driving shaft,
12. Longitudinal—	U crank-arm—
13. Pivoted-lever and	69. Angular bit-shaft,
screw,	68. Speeding-gear.
14. Screw,	21. Box-openers.

DIVISION XXX.

EXAMINER SULLIVAN.

CLASSES.—50, Fluid-Pressure Regulators; 67, Lamps and Gas-Fittings; 158, Liquid and Gaseous Fuel Burners; 197, Type-Writing Machines.

CLASS 50.—FLUID-PRESSURE REGULATORS. (xxx.)

(For definitions see Bulletin No. 6, p. 9.)

Subclasses.

- | | |
|--------------------------------------|----------------------|
| 1. Combined regulators and cut-offs— | Regulators— |
| 4. Diaphragm— | Outlet pressure— |
| 5. Lever, | Diaphragm— |
| 6. Float— | Water-protected, |
| 7. Lever, | Weight, |
| 8. Liquid transfer, | Float— |
| 9. Piston— | Lever— |
| 2. Valve-balancing. | Spring, |
| 10. Multiple regulating devices— | Weight, |
| 11. Auxiliary valve— | Spring, |
| 12. Venting. | Weight, |
| Regulators— | Piston— |
| 13. Balanced pressure, | Lever— |
| 14. Inlet pressure, | Spring, |
| 15. Outlet pressure— | Weight, |
| 21. Diaphragm— | Valve-balancing, |
| 25. Lever— | Varying-resistance— |
| 26. Spring, | Automatic weight- |
| 27. Weight, | varying, |
| 23. Spring, | 18. Clockwork, |
| | 19. Liquid transfer. |

CLASS 67.—LAMPS AND GAS-FITTINGS. (xxx.)

Subclasses.

- | | |
|--------------------------|---------------------------------|
| 1. Candelsticks— | Lamps— |
| 97. Miners'. | 103. Flash. |
| 4. Chimney-holders. | 16. Forced-draft, |
| Chimneys— | 17. Independent-reservoir, |
| 92. Composite, | 64. No-chimney, |
| 93. Double, | Safety-tube and central- |
| 91. Integral, | draft— |
| 99. Collars and tops. | 104. Draw-bar, |
| Cut-offs— | 105. Miscellaneous, |
| 53. Automatic, | 106. No-raiser, |
| 54. Pressure. | 107. Rack-bar, |
| 89. Distributors. | 108. Screw-rod, |
| 100. Drip-catchers. | 109. Swiss-screw, |
| 121. Explosive-lighters. | 85. Special, |
| Extinguishers— | 29. Street. |
| 60. Fluid, | 24. Lanterns— |
| 59. Mechanical, | 90. Dark, |
| 61. Pneumatic. | 35. Signal, |
| 101. Fonts. | 46. Submarine, |
| 7. Gas-burners— | 44. Tubular, |
| Acetylene, | 45. Lantern-holders. |
| 51. Incandescent— | 71. Lighting implements. |
| 122. Block, | 84. Lighting systems. |
| 123. Magnesium, | Lights— |
| 148. Mantles, | 96. Christmas-tree, |
| 124. Mantle-supports, | 50. Decorative, |
| 125. Miscellaneous, | 75. Hydrogen-platinum, |
| 52. Regenerative, | 34. Signal, |
| 9. Regulating. | 95. Oil indicators and fillers. |
| Gas-lighting attach- | 80. Peestals. |
| ments— | 81. Pocket-lighters. |
| 126. Conducting-tube, | 69. Safety lamps and lanterns. |
| 127. Flame-guards, | 116. Spark-catchers. |
| 128. Pilot, | 149. Stage-lighting. |
| 129. Self-igniting. | 38. Torches. |
| 70. Headlights. | Vapor-burners— |
| 79. Lamp attachments. | Air-mixing— |
| 83. Lamp-boxes. | Conducting-plate, |
| 33. Lamp-burners— | 137. Heating-jet, |
| 10. Argand, | 138. Retorts, |
| 11. Multiple-wick. | 139. Auxiliary-jet, |
| Lamp-lighting attach- | 151. Contractors' torches, |
| ments— | 140. Double-flame, |
| 130. Aperture, | 141. Heat-conducting, |
| 131. Match-scratchers, | 142. Main flame heated, |
| 132. Miscellaneous, | 143. Miscellaneous. |
| 22. Separable. | 117. Vents. |
| 23. Lamps— | 146. Wick locks, stops, and |
| 67. Bicycle— | gages. |
| 159. Supports, | 86. Wick-pickers. |
| 29. Bracket, | 88. Wick raisers, flat. |
| 79. Carriage, | 23. Wicks. |
| 42. Cigar-lighting, | |

CLASS 158.—LIQUID AND GASEOUS FUEL BURNERS. (xxx.)

(xxx.)

(For definitions see Bulletin No. 16, p. 7.)

Subclasses.

- | | |
|-----------------------------|------------------------------|
| Burners— | Burners— |
| Gas— | Liquid fuel— |
| 99. Acetylene, | Retort— |
| 101. Burner-caps— | 85. Lighting and relight- |
| 116. Regulating, | ing devices, |
| 117. Concentric gas and air | 60. Movable vapor-de- |
| jet, | flector, |
| 112. Davy lamp diaphragm, | 56. Oil, steam, or water— |
| 113. Flame-deflectors, | 57. Steam-jet, |
| 114. Fuel-distributors, | 63. Overlying— |
| 102. Gas-jet attachments— | 64. Mixing-chamber— |
| Convertible, | Burner-cap, |
| 103. Gas-logs, | 65. Side-retort, |
| 100. Laboratory type, | 71. Starters— |
| 111. Lighting devices, | 82. Continuously-op- |
| 115. Multiple, | erated, |
| 104. Independent cut-off, | 83. Lighting-cup— |
| 105. Mixing-tube, | 84. Oil-charge meas- |
| 106. Relatively adjust- | uring, |
| able, | 54. Superheating— |
| 109. Pressure-burners, | 55. Burner-cap. |
| 108. Regenerative, | 66. Underlying— |
| 28. Liquid-fuel— | 67. Conducting- |
| 96. Absorbent— | plate— |
| 97. Alcohol-lamp, | 68. Mixing-chamber |
| 29. Automobile— | and burner- |
| 30. Gas-chamber, | cap, |
| 31. Starters, | 69. Mixing-chamber |
| 32. Blast-lamp— | and burner-cap. |
| 33. Hand-torches— | 70. Mixing-chamber |
| Automatic blow- | and flame-de- |
| pipe, | flector, |
| 35. Wick type, | 72. Wick-feed, |
| 36. Fuel-feeding— | 73. Spray— |
| Lamp-stove type— | 77. Atomizers, |
| 44. Reservoir— | 78. End nozzles, |
| 45. Protector and | 76. Oil and air, |
| air-feeding, | 74. Oil, air, and steam, |
| 43. Liquid-seal, | 75. Oil and steam. |
| 37. Maintained oil- | 117.5. Processes, |
| level— | 8. Coal-stove attachments— |
| 38. Float-controlled— | 9. Lid-burners. |
| Liquid-seal, | 12. Combined gas and coal. |
| 40. Fountain-feed— | 13. Combined gas and water |
| Removable- | vaporizers, |
| font— | 11. Combined oil and gaseous |
| 41. Cut-off, | fuel. |
| 42. Vertically-adjust- | 10. Fire-kindlers. |
| able burner or | 1. Furnaces— |
| tank, | 2. Combined door and |
| 46. Tanks— | burner, |
| 48. Burner cut-off— | 7. Gas, |
| 49. Retracting- | 4. Liquid-fuel— |
| pump, | Retort— |
| 47. Combined oil and | 5. Gas-making, |
| gas, | 3. Locomotive type. |
| 52. Drop-feed, | 118. Gas and air mixers— |
| 50. Force-feed, | Proportional. |
| 51. Siphon-feed, | 119. Self-heating tools— |
| Lamp type— | Branding-irons— |
| 94. Water-vaporizers, | 15. Gas, |
| 91. Pan or tray— | 16. Hydrocarbon-reser- |
| 92. Steam or air spray, | voir, |
| 93. Water-surface, | 17. Burning-tools— |
| 86. Perforated combus- | 18. Gas, |
| tion-tube— | 19. Hydrocarbon-reser- |
| 89. Combustion-tubes, | voir, |
| Lighting arrange- | 20. Curling-irons— |
| ments, | Hydrocarbon-reser- |
| 87. Trough, | voir, |
| 88. Wick, | 22. Roll-heating type. |
| 53. Retort— | 23. Sad-irons, |
| Additiona carbu- | 24. Soldering-irons— |
| reter— | Gas, |
| 59. Central generator, | 27. Hydrocarbon-reser- |
| Auxiliary-heater— | voir, |
| Subburner, | 25. Solder-feeders. |
| 79. Coil, | 120. Valves and cleaners— |
| 80. Film, | 121. Pressure-governed. |

DIVISION XXX.—CONTINUED.

CLASS 197. TYPE-WRITING MACHINES. (xxx.)

Subclasses.

- | | |
|--------------------------|-----------------------|
| 1. Aliners. | 5. Cleaners. |
| 2. Attachments. | 6. Electrical. |
| 3. Bar. | 7. Index-wheel. |
| 4. Carriages— | 8. Keyboards. |
| 15. Carriage-stops, | 9. Key-wheel. |
| 17. Feed mechanism, | 10. Miscellaneous. |
| 16. Line-spacing, | 11. Plate. |
| 18. Paper-feeding, | 12. Ribbon mechanism. |
| 20. Platens, | 13. Stenographic. |
| 19. Platen-shifts, | |
| 21. Scales and pointers, | |

DIVISION XXXI.

EXAMINER ELY.

CLASSES.—195, Alcohol; 203, Ammonia, Water, and Wood Distillation; 202, Charcoal and Coke; 48, Gas: Heating and Illuminating; 149, Hides, Skins, and Leather; 134, Liquid Coating Compositions; 196, Mineral Oils; 87, Oils, Fats, and Glue; 210, Water Purification.

CLASS 195.—ALCOHOL. (XXXI.)

Subclasses.

- | | |
|---------------------------|----------------------------|
| 1. Beer— | 21. Malting— |
| 4. Preserving— | 22. Apparatus— |
| 5. Pasteurizing, | 23. Cylinders, rotary, |
| 2. Purifying— | 24. Malt-stirrers, |
| 3. Finings and shavings. | 25. Processes. |
| 6. Distilled spirits— | 26. Mashing— |
| 7. Aging— | 27. Apparatus— |
| 9. Apparatus— | 28. Digesters and disinte- |
| 10. Rocking racks, | 29. grators, |
| 11. Processes, | 30. Mash-tubs— |
| 12. Apparatus— | 31. Rakes, |
| 13. Stills— | 32. Tubular rakes, |
| 14. Columns, | 33. Hops, |
| 15. Doublers and worms, | 34. Processes, |
| 16. Vapor-filters, | 35. Wort— |
| 17. Rectifying processes. | 36. Hopping, |
| 18. Fermenting— | 37. Purifying. |
| 19. Apparatus— | 38. Wines. |
| 20. Vats, | |
| 21. Vent-bungs, | |
| 22. Processes. | |

CLASS 203.—AMMONIA, WATER, AND WOOD DISTILLATION. (XXXI.)

Subclasses.

- | | |
|----------------|-----------|
| 1. Ammonia. | 5. Water. |
| 2. Turpentine— | 6. Wood. |
| 3. Apparatus, | |
| 4. Processes. | |

CLASS 202.—CHARCOAL AND COKE. (XXXI.)

Subclasses.

- | | |
|---------------------------|---------------------|
| Charcoal— | Coke— |
| 10. Kilns, | 1. Ovens— |
| 2. Processes, | 2. Doors, |
| 3. Retorts. | 3. Dumping-bottoms. |
| 4. Coke— | 4. Processes. |
| 5. Ovens— | 5. Retort-ovens. |
| 6. Chargers and discharg- | |
| 7. ers, | |

CLASS 48.—GAS. HEATING AND ILLUMINATING (XXXI.)

(For definitions see Bulletin No. 11, p. 4.)

Subclasses.

- | | |
|-----------------------------|---------------------------|
| Acetylene— | Acetylene— |
| 50. Carbide-cartridges— | Generators— |
| 60. Conglomerate, | Water-feed— |
| 1. Generation and liquefac- | 24. Cells-series, |
| 2. tion, | 19. Ebb-and-flow— |
| 3. Generator and holder, | 21. Cells-series, |
| 4. Generator and mixer, | 22. Concentric, |
| 5. Generators— | 23. Series, |
| 6. Automatic safety es- | 24. Expansible carbide- |
| 7. cape, | 25. container, |
| 8. Carbide-feed— | 26. Expansible water- |
| 9. Apron or belt, | 27. holder, |
| 10. Cook, | 28. Holder-operated— |
| 11. Dip, | 29. Cells-series, |
| 12. Cells-series, | 30. Gasometer and |
| 13. Flap-valve, | 31. high-pressure |
| 14. Head, | 32. holder, |
| 15. Dip, | 33. Interior-valve, |
| 16. Measured charges— | 34. Rotary-cylinder, |
| 17. Cartridges, | 35. Series— |
| 18. Rotary-carrier— | 36. Automatic- |
| 19. Vertical, | 37. switch, |
| 20. Stationary, | 38. Underfeed— |
| 21. Piston, | 39. Valveless— |
| 22. Plate-valve, | 40. Displacer, |
| 23. Pop-valve, | 41. Flexible-tube, |
| 24. Screw, | 42. Generator-sup- |
| 25. Slide-valve, | 43. ported, |
| 26. Sludge-run, | 44. Siphon, |
| 27. Valves, gas | 45. Tilting, |
| 28. feed, | 46. Inexpansible gas- |
| 29. Water-fe- | 47. holder and water- |
| 30. Capilla- | 48. feed, |
| 31. Adju- | 49. Interlocking devices, |

CLASS 48.—Continued.

- | | | |
|---------------------------------|------------------------------|-------------------------------|
| Acetylene— | Generators— | Generators— |
| 32. Water-feed— | Retort— | 113. Furnaces, |
| 27. Oscillating, | 97. Hydrogen, | 92. Metal-bath, |
| 28. Percolating— | 102. Oil— | 107. Air-injected, |
| 37. Pressure-valves, | 106. Automatic-feed. | 103. Electric heater, |
| 33. Rotary-cylinder, | 104. Jet-mixers, | 105. Steam-injected, |
| 34. Rotary-grate, | 93. Oil and gas injected, | 94. Oil and steam inject- |
| 23. Series, | ed— | 95. Air, |
| 35. Underfeed. | 96. Carbureter, | 91. Portable, |
| 144. Carbureters— | 108. Water— | 109. Carbureter, |
| 155. Atomizers, | 110. Oil-gas, | 111. Wood— |
| 156. Capillary— | 112. Oil. | 113. Holders— |
| 157. Spiral-passage, | 174. Bell and tank— | 176. Sectional-bell, |
| 158. Vertical-screen, | 177. Collapsible, | 178. High-pressure safety-es- |
| 159. Zigzag-passage, | 179. Tank. | 180. Mixers— |
| 147. Fixer, | 181. Bell and tank— | 182. Anterior, |
| 160. Gravity, | 183. Posterior, | 184. Diaphragm, |
| 148. Heater— | 185. Gravity, | 186. Pump, |
| 149. Air, | 187. Rotary-drum— | 188. Anterior, |
| 161. Lamps— | 189. Posterior. | 196. Natural. |
| 162. Gravity, | 197. Processes— | 216. Acetylene— |
| 150. Oil-feed— | 218. Treatment of calcium | 219. Carbureting, |
| 151. Float-valves, | carbide, | 220. Coal, |
| 152. Pump, | 219. Carbureting, | 201. Coal and oil, |
| 153. Rotary, | 220. Coal and water, | 202. Coal, oil, and water, |
| 154. Spray, | 200. Coal, oil, and water, | 198. Hydrogen— |
| 163. Osmotic, | 199. Carbureting, | 211. Oil— |
| 164. Pivoted, | 212. Air-injected, | 213. Gas-injected— |
| 165. Revolving, | 214. Oil and steam injected— | 215. Air, |
| 145. Regulating, | 216. Producer, | 220. Purifying, |
| 146. Series, | 221. Storage absorption, | 204. Water— |
| 166. Submerged-blast— | 205. Carbureting, | 206. Continuous, |
| 167. Coil, | 207. Down-run, | 208. Up-and-down run, |
| 168. Surface— | 209. Wood. | 128. Purifiers— |
| 169. Float. | 137. Boxes, | 138. Condensers, |
| 170. Center and by-pass valves. | 143. Revivifying, | 140. Separators— |
| 222. Compositions— | 141. Centrifugal, | 142. Float-valve, |
| 223. Carbureting, | 139. Trays, | 129. Washer and dry purifier— |
| 224. Purifying. | 130. Washer and scrubber— | 131. Float, |
| 171. Dip-pipes— | 132. Reciprocating, | 133. Rotary— |
| 172. Valved. | 134. Vertical, | 135. Spray— |
| 190. Distribution— | 136. Rotary. | 119. Retorts— |
| 193. Leakage— | 126. Attachments, | 127. Cleaning, |
| 194. Preventing, | 120. Compound, | 122. Inclined, |
| 195. Odorizers, | 124. Lids— | 125. Rotary, |
| 191. Regulating pressure, | 121. Rotary, | 123. Vertical. |
| 192. Safety devices. | | |
| 173. Exhausters. | | |
| 61. Generators— | | |
| 62. Cupola— | | |
| 87. Accessories, | | |
| 63. Air and steam inject- | | |
| ed— | | |
| 64. Superheated, | | |
| 85. Carbon-monoxid. | | |
| 86. Chargers | | |
| 77. Coal, | | |
| 72. Coal and oil, | | |
| 73. Coal and water, | | |
| 71. Coal, oil, and water, | | |
| 65. Electric, | | |
| 70. Hydrogen, | | |
| 75. Oil and steam injected, | | |
| 76. Producers, | | |
| 74. Refractory filling, | | |
| 66. Rotary-bottom, | | |
| 88. Stirrer, | | |
| 79. Water— | | |
| 80. Carbureter— | | |
| 81. Fixer, | | |
| 80. Retort. | | |
| 84. Oil-gas, | | |
| 82. Up-and-down run— | | |
| 83. Interlocking | | |
| valves, | | |
| 67. Water-jacket— | | |
| 68. Rotary-bottom, | | |
| 69. Water-seal pit, | | |
| 114. Hydrogen— | | |
| 116. Carbureter— | | |
| 117. Air, | | |
| 118. Floating-oil, | | |
| 115. Series, | | |
| 101. Coal, | | |
| 100. Coal and oil, | | |
| 99. Coal and water, | | |
| 98. Coal, oil, and water | | |
| 89. Retort— | | |
| 90. Domestic plants, | | |

DIVISION XXXI.—CONTINUED.

CLASS 140.—HIDES, SKINS, AND LEATHER. (XXXI.)

Subclasses.

- | | |
|------------------------------|----------------------------|
| 8. Apparatus— | 9. Apparatus— |
| 22. Coloring and polishing. | 9. Tanning. |
| 19. Endless belts, | 11. Tumbling-drums, |
| 16. Helical tools, | 10. Vats. |
| 20. Putting out and stretch- | Processes and composi- |
| ing— | tions— |
| 21. Stretching-frames, | 3. Bating. |
| 17. Reciprocating tools— | 7. Coloring and polishing. |
| 18. Rooking frames, | 6. Currying. |
| 23. Rolling and embossing. | 2. Depilating. |
| 14. Rotary cylinders, | 1. Preserving. |
| 15. Rotating tools, | 4. Tanning. |
| 12. Tables and frames, | 5. Tawing. |
| 13. Tanners' tools, | |

CLASS 196.—MINERAL OILS. (XXXI.)

Subclasses.

- | | |
|-------------------------------|----------------------------|
| 1. Apparatus— | Apparatus— |
| 2. Reducing gravity, | Stills— |
| 3. Stills— | 16. Vacuum. |
| 6. Bottoms, | 17. Vapor-outlets. |
| 5. Condensers, | Coal-oil— |
| 7. Feeders, | 21. Processes, |
| 8. Films, | 19. Retorts— |
| 9. Furnaces and flues, | 20. Rotary. |
| 10. Heads, | 22. Compositions— |
| 11. Jackets, | 23. Burning-fluid. |
| 12. Rotary, | 24. Paraffin. |
| 13. Series, | 25. Processes— |
| 4. Stirrers and scrapers, | 26. Chemical. |
| 18. Supplementary heat- | 27. Infect'g gases, |
| ing, | 28. Residuum. |
| 14. Tubular, | 29. Washing and filtering. |
| 15. Utilizing gases and resi- | |
| due, | |

CLASS 134.—LIQUID COATING COMPOSITIONS. (XXXI.)

(For definitions see Bulletin No. 7, p. 14.)

Subclasses.

- | | |
|--------------------------------|------------------------------|
| 2. Barrel-lining— | Paint— |
| 3. Bituminous and resin- | 40. Fillers. |
| ous— | 55. Gelatinous and gummy, |
| 4. Tar, | 47. Luminous, |
| 5. Wax, | 56. Pigments— |
| 6. Gelatinous and gummy. | 59. Iron salts, |
| 11. Fabric coating and water- | 60. Lampblack— |
| proofing— | Reciprocating collec- |
| 13. Bituminous and resin- | tor-plate, |
| ous— | 62. Reciprocating |
| 14. Tar, | scraper, |
| 15. Wax, | 63. Rotating burners, |
| 16. Gelatinous and gummy, | 64. Rotating collector- |
| 12. Proteids, | plate, |
| 17. Rubber, | 65. Rotating cylinder, |
| 24. Furniture-polish. | Settling-chambers, |
| 28. Ink— | 66. Lead salts— |
| 30. Branding, | Attrition process, |
| 31. Copying, | Dry process— |
| 33. Fraud-preventive, | Carrier, |
| 32. Indelible, | 71. Pots, |
| 35. Printers'— | 70. Stack, |
| 36. Bituminous and resin- | Treating, |
| ous, | Wet process— |
| 34. Stamping, | Alkali, |
| 29. Sympathetic, | 73. Ammonium ace- |
| 82. Treatment, | tate, |
| 37. Writing, | 75. French, |
| 38. Powders, | Metallic powders, |
| 7. Leather coating and polish- | Ultramarine, |
| ing— | 76. Zinc salts, |
| 8. Bituminous and resin- | 78. Proteids, |
| ous— | Rubber, |
| 9. Wax, | 54. Stains, |
| 10. Gelatinous and gummy. | 48. Treatment, |
| 1. Miscellaneous | 56. Vehicles, |
| 80. Treatment. | 79. Pyroxilin. |
| 40. Antifouling and insecti- | 18. Sizing. |
| dial | 21. Bituminous and resin- |
| 41. Bituminous and resin- | ous— |
| ous— | 22. Wax, |
| 42. Tar, | 23. Gelatinous and gummy, |
| 43. Wax, | 19. Laundry starch and pol- |
| 51. Bituminous and resin- | ish. |
| ous— | 20. Proteids. |
| 52. Tar, | 25. Stove-polish. |
| 53. Wax, | 26. Varnish. |
| 46. Distemper, | 81. Treatment. |
| 57. Driers, | 27. Window-frost preventive. |
| 44. Fireproof— | |
| 45. Soluble silicates, | |

CLASS 87.—OILS, FATS, AND GLUE. (XXXI.)

Subclasses.

- | | |
|------------------------|------------------------|
| 17. Adhesives. | 9. Lubricants. |
| 18. Artificial butter. | 12. Refining fat oils. |
| 21. Candles. | 13. Rendering. |
| 3. Candle apparatus. | 23. Soap articles. |
| 4. Decomposing fats. | 16. Soap manufacture. |
| 5. Detergents. | 25. Suint. |
| 6. Extracting oils. | 19. Wax. |
| 7. Glue. | |

CLASS 210.—WATER PURIFICATION. (XXXI.)

Subclasses.

- | | |
|-------------------------|-------------------|
| Filters— | Filters— |
| 2. Beer, | 10. Oil, |
| 19. Chemical-feeders, | 11. Porous-wall, |
| 3. Clatern-cleaners, | 12. Portable, |
| 4. Clatern-supply, | 13. Pressure, |
| 5. Decanters, | 14. Rotary-bed, |
| 6. Faucet, | 15. Service-pipe, |
| 7. Filtering-faucets, | 16. Strainers, |
| 8. Granular-bed, | 17. Submerged, |
| 20. Liquid sterilizers, | 18. Systems. |
| 9. Materials, | 1. Miscellaneous. |

DIVISION XXXII.

EXAMINER BANCROFT.

CLASSES.—209, Carbonating Beverages; 225, Dispensing Beverages; 221, Dispensing-Cans; 220, Metallic Shipping and Storing Vessels; 226, Packaging Liquids; 62, Refrigeration.

CLASS 209.—CARBONATING BEVERAGES. (xxxii.)

Subclasses.

7. Beverages.
1. Carbonators—
10. Beer—
11. Atomizer,
12. Pressure,
13. Pump,
3. Rotary-mixer,
14. Spray.
8. Carbonators and generators—
9. Portable.

CLASS 225.—DISPENSING BEVERAGES. (xxxii.)

Subclasses.

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. Beer apparatus— 2. Barrel-taps— 3. Draft-tube, 4. Driving-tools, 5. Faucets— 6. Foam, 7. Pump, 8. Foam-separators— 9. Settling-chambers, 10. Followers— 11. Collapsible, 12. Pipe-cleaners— 13. By-pass, 14. Hot-water, Pressure— 15. Air— 16. Pump, 17. Gas— 18. Attached chamber, 19. Pump, 20. Vents. | <ol style="list-style-type: none"> 21. Soda-water apparatus— 22. Bottle-taps, 23. Faucets— 24. Foam— 25. Rotary valve, 26. Mixing, 27. Nozzles, 28. Fountains— 29. Casings, 30. Pressure-reducers, 31. Pump, 32. Syrup-cocks— 33. Measuring, 34. Rotary, 35. Syrup-tanks— 36. Removable— 37. Sliding, 38. Swinging, 39. Valves. |
|---|--|

CLASS 221.—DISPENSING-CANS. (xxxii.)

Subclasses.

- | | |
|---|---|
| <ol style="list-style-type: none"> 93. Canteens and flasks. 1. Filling-cans— 2. Closures— 3. Cap— 4. Screw, 5. Spout, 6. Pivoted, 7. Screw— 8. Plug, 9. Jackets— 10. Corrugated, 87. Wire, 29. Wooden— 88. Closures, 11. Nozzles— 12. Cut-offs— 13. Automatic— 14. Spring— 15. Pull, 16. Push, 17. Vents, 18. Detachable, 19. Rotary— 20. Vented, 22. Screw, 21. Slide, 23. Detachable— 24. Reversing, 25. Flexible-tube, 24. Pivoted, 27. Sliding, 25. Vented, 29. Tilting stands— 29. Pivoted— 31. Frames, 32. Lift and swing, 33. Vents. 34. Hand-rollers— 35. Attachments, 36. Bottom springs, 37. Compartment, 38. Catchers— 39. m— 40. d— | <ol style="list-style-type: none"> Hand-rollers— Feed-controllers— 43. Bottom, 44. Spout, 45. Stem— 46. Lever, 47. Forced-feed— 48. Bottom-actuated, 49. Bulb, 50. Nozzle-actuated, 51. Pump— 52. Air, 53. Holders— 54. Rod, 55. Illuminating, 56. Spouts— 57. Cleaning-pins, 58. Closing-caps, 59. Vented, 60. Paint-tubes, 61. Powder-cans— 62. Cut-offs— 63. Measuring, 64. Rotary, 65. Receiving-pockets, 66. Rotary stirrers. 67. Tanks— 68. Cabinets, 69. Drainers— 70. Covered, 71. Cup, 72. Pump— 73. Covered, Pressure— 74. Air— 75. Blow, 76. Bulb, 77. Pump, 78. Followers— 79. Screw, 80. Pump— 81. Covered, 82. Lift— 83. Removable, 84. Nozzle, 85. Removable, 86. Return suction. |
|---|---|

CLASS 220.—METALLIC SHIPPING AND STORING VESSELS. (xxxii.)

Subclasses.

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Barrels— 2. Corrugated, 3. Jackets, 4. Sectional. 135. Baskets— 136. Wire. 5. Boxes— 6. Blacking— 7. Handles, 8. Blanks, 9. Closures— 10. Fasteners, 11. Hinges— 12. Spring. 13. Sliding. 14. Compartment— 15. Closures, 17. Knockdown. 21. Bucket-bottoms. 22. Bucket-closures. 23. Bucket-ears— 24. Detachable, 25. Driving, 26. Embossed, Locking— 27. Ball, 28. Cover, 29. Wire. 30. Bucket-handles— 31. Wire— 32. Balls. 33. Buckets— 34. Can, 35. Coal— 36. Blanks, 37. Bottoms— 38. Integral-foot, 39. Integral foot and body, 40. Wooden, 41. Closed, 42. Feeders— 43. Bottom, 44. Guards— 45. Pivoted, 46. Sifting, 47. Garbage, 48. Jackets, 49. Lunch— 50. Compartment— 51. Nesting— 52. Sectional, 53. Jackets, 54. Slop— 55. Closures— 56. Disinfecting, 57. Liquid-seal. 58. Can-closures— 59. Cap, 60. Fasteners— 61. Bar, 62. Pivoted, 63. Plug, 64. Ring, 65. Rip— 66. Breakable, | <ol style="list-style-type: none"> Can-closures— Rip— 67. Cutting. 68. Strip— 69. Integral— 70. Double-seam, 71. Key, 72. Wire— 73. Seam, 74. Screw— 75. Bayonet, 76. Slip— 77. Multiple-cover, 78. Packed, 79. Sealing grooves, 80. Snapping. 81. Can-seams— 82. Crimped— 83. Ring, 84. Three-wall, 85. Four-wall, 86. Five-wall, 87. Six to twelve wall. 88. Canisters— 89. Bottom-feed, 90. Closures, 91. Display. 92. Cans— 93. Blanks, 137. Bottoms, 94. Hermetic closures— 95. Fusible, 96. Plug, 97. Hermetic sealers, 138. Jacketed, 98. Lined. 108. Casks— 109. Soda-water— 110. Valved. 111. Crates— 131. Knockdown— Folding— 132. Horizontal-pivot, 133. Horizontal and vertical pivot, 134. Sectional. 112. Pans— 113. Blanks. Receptacles— 114. Antitrust, 115. Garbage— 116. Hoisting, 117. Sinks, 118. Vault, 119. Wall. 120. Tank attachments— 121. Safety— 122. Float, 123. Water-jackets, 124. Tank-closures. 125. Tanks— 126. Transporting— 127. Compartment, 128. Vehicle. |
|---|---|

DIVISION XXXII.—CONTINUED.

CLASS 226. PACKAGING LIQUIDS. (XXXII.)

Subclasses.

4. Corking-machines -	Filling-machines -
5. Automatic-feed,	Cut-offs
6. Compressing	Automatic
7. Automatic-feed,	14. Vent,
8. Hand-tools,	16. Faucets,
28. Filling and corking ma-	17. Gage
chines	18. Adjustable,
29. Barrel,	19. Pump
30. Corking-nozzle,	20. Adjustable,
31. Counter-pressure,	21. Multiple-nozzle,
32. Reciprocating nozzle,	22. Reciprocating nozzle,
9. Filling-machines	23. Siphon-bottle,
10. Barrel,	24. Siphon-tube,
15. Counter-pressure,	Stoppers
11. Cut-offs	25. Internal,
12. Automatic—	26. Valve,
13. Float,	27. Turn-over.

CLASS 62.—REFRIGERATION. (XXXII.)

Subclasses.

Air—	8. Implements.
20. Expansion,	16. Lard-coolers.
22. Ice,	18. Liquefaction of gases.
21. Refrigerated surface,	10. Refrigerators.
2. Beer-coolers.	11. Refrigerator-buildings.
3. Corpse-coolers.	12. Refrigerator-cars.
4. Ice-cream freezers—	19. Separation of liquids.
17. External freezing.	13. Water-coolers.
6. Ice-machines.	14. Wine-coolers.

DIVISION XXXIII.

EXAMINER W. A. COWLES.

CLASSES.—30, Outlery; 53, Domestic Cooking Vessels; 174, Electricity: Medical and Surgical; 177, Electric Signaling; 72, Masonry and Concrete Structures; 135, Tents, Canopies, Umbrellas, and Canes.

CLASS 30.—CUTLERY. (XXXIII.)

Subclasses.

- | | |
|-----------------------|--------------------------|
| 1. Animal-shears. | 23. Manicure implements. |
| 3. Can-openers. | 11. Pruning implements— |
| 21. Fork-guards. | 24. Fruit-clippers. |
| 5. Forks. | 12. Razors. |
| 22. Forks and spoons. | 13. Scissors and shears. |
| 9. Knives— | 14. Twine-cutters. |
| 20. Gage, | 15. Wick-trimmers. |
| 8. Hay, | 17. Wire-shears. |
| 10. Pocket. | |

CLASS 53.—DOMESTIC COOKING VESSELS. (XXXIII.)

Subclasses.

- | | |
|-------------------------|----------------------|
| Bollers— | Pans— |
| 1. Domestic— | 6. Bake, |
| 2. Steamers. | 7. Frying. |
| 3. Coffee and tea pots. | 8. Pots and kettles. |
| 4. Corn-poppers. | 9. Tea-kettles. |
| 5. Gridirons. | 10. Waffle-irons. |

CLASS 174.—ELECTRICITY. MEDICAL AND SURGICAL. (XXXIII.)

Subclasses.

- | | |
|----------------------------|----------------------------|
| 87. Baths. | Medical and surgical— |
| 88. Body-wear. | 173. Combs and brushes, |
| 89. Electrodes. | 174. Electric soles, |
| 177. Medical and surgical— | 175. Exercising apparatus, |
| 172. Chairs and couches, | 170. Vaporizers. |

CLASS 177.—ELECTRIC SIGNALING. (XXXIII.)

Subclasses.

- | | |
|-------------------------|----------------------|
| 311. Alarms— | 10. Circuit-closers— |
| 314. Burglar, | 202. Burglar, |
| 315. Hose, | 301. Letter-box, |
| 317. Liquid-level, | 203. Lock, |
| 316. Safe, | 204. Retarded, |
| 318. Weight-controlled. | 128. Thermal— |
| 7. Bells— | 302. Fluid, |
| 288. Electromechanical. | 303. Fusible. |

CLASS 72.—MASONRY AND CONCRETE STRUCTURES. (XXXIII.)

(For definitions see Bulletin No. 21, p. 5.)

Subclasses.

- | | |
|-------------------------------|----------------------------|
| 55. Arches— | Buildings— |
| 56. Bridge— | 4. Auditoriums, |
| 57. Metal-lined, | 6. Elevators and bins, |
| 58. Fireplace, | 2. Plans, |
| 63. Floor— | 5. Storage, |
| 64. Bridge, | 7. Vaults. |
| 60. Concrete— | 10. Cellars— |
| 70. Externally metal re- | 11. Caves. |
| inforced, | 9. Cisterns. |
| 71. Internally metal re- | 72. Columns— |
| inforced, | 76. Metal-reinforced, |
| 67. Tile— | 74. Plastic-covered, |
| 68. Metal-reinforced, | 75. Plastic-filled, |
| 65. Tile and concrete— | 73. Tile-covered. |
| 66. Metal-reinforced, | 51. Conduits— |
| 59. Girders— | 52. Culverts, |
| 62. Attaching, | 53. Pipes— |
| 61. Metal-reinforced, | 54. Lined and covered. |
| 60. Plastic-filled. | 86. Coping— |
| 101. Bonding and tying— | 87. Borders, |
| 108. Anchors and sockets, | 88. Chimney-caps, |
| 102. Bonding, | 89. Vault. |
| 104. Clamps, | 97. Doors. |
| 105. Fixing-blocks, | 77. Foundations— |
| 100. Joints— | 81. Concrete piles, |
| 107. Block, | 78. Machine, |
| 103. Ties. | 80. Piers, |
| 8. Bridges. | 79. Shoring. |
| 12. Bonding elements and sup- | 128. Implements— |
| 105. Integral. | 129. Bricklaying-machines, |
| | 132. Gages, |
| | 104. Hawks, |

CLASS 72.—Continued.

Implements—

- | | |
|----------------------------|------------------------|
| 134. Hods, | 16. Walls— |
| 130. Plastering-machines, | Block— |
| 133. Plumbs, | Faced— |
| 138. Pointers, | 35. Attached, |
| 131. Running-molds, | 36. Integral, |
| 137. Scrapers, | 45. Fiber, |
| 136. Trowels and floats. | 41. Hollow— |
| 100. Manholes and covers. | 42. Metal-reinforced, |
| 123. Plastering— | 43. Parallel-spaced— |
| 124. Plaster-boards— | 44. Metal-reinforced, |
| 125. Ornaments. | 37. Solid— |
| 82. Posts— | 39. Angular, |
| 83. Inseparable bases, | 38. Interlocked, |
| 84. Separable bases. | 40. Metal-reinforced, |
| 109. Reinforcing elements— | 31. Block and plastic— |
| 111. Bars— | 32. Metal-reinforced, |
| 112. Attached shear mem- | 29. Plastic-filled— |
| bers, | 30. Metal-reinforced, |
| 113. Integral shear mem- | 17. Faced— |
| bers, | 18. Tile— |
| 110. Compound, | 26. Faced elements, |
| 114. Joints, | 22. Flexible-backed, |
| 116. Lathing— | 24. Framed, |
| 121. Corner-beads, | 25. Interlocking, |
| 117. Expanded-metal, | 23. Rigid-backed, |
| 118. Furring and fasten- | 19. Wall-anchored— |
| ing, | 21. Bonded, |
| 119. Wire— | 20. Metal-reinforced, |
| 120. Furring and fasten- | 28. Monolithic— |
| ing, | 27. Metal-reinforced, |
| 122. Spacers, | 34. Fences, |
| 115. Studding. | Monolithic— |
| 98. Sills and jambs. | Hollow— |
| 90. Smoke-flues— | 47. Metal-reinforced, |
| 95. Bases, | 46. Partition, |
| 91. Block, | 49. Solid— |
| 94. Lined, | 50. Metal-reinforced, |
| 92. Sectional, | 33. Wood and plastic. |
| 93. Stacks. | Waterproofing— |
| 96. Stairs. | 126. Cellars, |
| 13. Tanks— | 127. Walls. |
| 14. Lined. | 12. Wells. |
| 85. Telegraph-poles. | 99. Windows. |

CLASS 135.—TENTS, CANOPIES, UMBRELLAS, AND CANES. (XXXIII.)

(For definitions see Supplement No. 3, p. 2692.)

Subclasses.

- | | |
|-------------------------------|-------------------------------|
| 45. Canes and sticks— | Umbrellas— |
| 46. Umbrella-sticks, | Covers, linings, and |
| 47. Modifications and attach- | cases— |
| ments. | 35. Sight-openings and ven- |
| 5. Canopies— | tilators, |
| 7. Bicycle, | 48. Drip-cups, |
| 6. Boat, | 25. Folding— |
| 8. Hanging covers. | 26. Sliding-rib, |
| 9. Canopy-supports— | 32. Geats, |
| 10. Baby-carriage, | 37. Retainers— |
| 11. Bicycle, | 38. Runner— |
| 12. Body-harness. | 39. Sliding, |
| 1. Tents— | 40. Spring— |
| 3. Frames— | 41. Modified runner, |
| 4. Folding, | 42. Stick-hinge locked, |
| 14. Heaters, lighters, venti- | 43. Turning, |
| lators, and doors, | 44. Tip. |
| 15. Pegs, poles, and cover- | 31. Ribs and stretchers, |
| fastenings, | 29. Rib and stretcher joints— |
| 2. Umbrella type. | 30. T-head and socket, |
| 20. Umbrellas— | 36. Rib-tips, top-protectors |
| 27. Auxiliary frame-brace, | and fasteners, |
| 16. Combined— | 28. Runners and notches, |
| 17. Umbrellas and canes— | 22. Self opening and closing— |
| 18. Imitation cane-case, | 24. Handle-release, |
| 19. Independent-stick, | 23. Tensioned rib and |
| 33. Covers, linings, and | stretcher, |
| cases— | 21. Suspended. |
| 34. Covers and linings, de- | 13. Umbrella-supports. |
| tachable, | |

DIVISION XXXIV.

EXAMINER SIMPSON.

CLASSES.—188, Railway-Brakes; 105, Railway Rolling-Stock; 104, Railways.

CLASS 188.—RAILWAY-BRAKES. (xxxiv.)

Subclasses.

- | | |
|-------------------------------|--------------------------------|
| 16. Automatic— | 14. Fluid-pressure— |
| 17. Draw-bar actuated— | 14. Train-pipe-release valves, |
| 19. Centrifugal governor, | 8. Train-pipe stop-cocks, |
| 19. Winding, | 15. Triple valves, |
| 20. Push-rod actuated— | 6. Vacuum. |
| 21. Winding. | 40. Hand-levers— |
| 22. Beams. | 41. Ratchet-drum, |
| 23. Brake-flange on wheel. | 42. Ratchet-segment. |
| 24. Brakes. | 70. Hangers— |
| 25. Brake-shoes— | 84. Non-chattering. |
| 82. Back-stiffeners, | 43. Load-regulated. |
| 26. Chills, | 70. Ratchet-driven screw. |
| 27. Composite faces, | 44. Connected series, |
| 28. Fasteners, | 45. Shoes between drivers. |
| 29. Non-metallic, | 46. Positive lock. |
| 30. Rail, | 47. Rail— |
| 31. Recessed faces, | 48. Grippers— |
| 69. Roller. | 74. Automatic, |
| 32. Conduit-slot. | 75. Rotary. |
| 33. Disk on axle— | 76. Safety-catches. |
| 33. Brake-band, | 77. Setting devices. |
| 34. Peripheral shoes, | 49. Slack-adjusters— |
| 35. Side shoes. | 50. Ratchet-bar, |
| 36. Electric— | 51. Ratchet-driven screw. |
| 37. Magnetic clutch— | 52. Stuffs— |
| 38. Winding-drum, | 53. Friction-clutch handles, |
| 39. Magnetic shoes, | 54. Geared, |
| 39. Solenoid-operated. | 55. Locking-ratchets, |
| Fluid-pressure— | 56. Ratchet-handles— |
| 1. Automatic, | 57. Pivoted, |
| 9. Brake-piston indicators, | 58. Screw, |
| 10. Brake-release valves, | 59. Winding attachments. |
| 2. Derailment— | 60. Top shoes. |
| 81. Frangible devices, | 61. Train-operated— |
| 3. Direct, | 62. Rotary shafts, |
| 4. Electric, | 63. Winding. |
| 7. Engineers' valves, | 78. Trip-controlled— |
| 11. Load-regulated valves, | 79. Frangible devices. |
| 12. Momentum-pump— | 80. Track-circuit controlled. |
| 71. Governors, | 64. Wheel and rail— |
| 12. Pressure-retainers, | 65. Chock-block. |
| 83. Signals, | Winding— |
| 72. Speed-controlled, | 66. Pneumatic shift. |
| 73. Strainers and drain-cups, | 67. Winding-axle. |
| 13. Train-pipe couplings, | 68. Winding-drum. |

CLASS 105.—RAILWAY ROLLING-STOCK. (xxxiv.)

Subclasses.

- | | |
|--|--------------------------------|
| 4. Axles— | 262. Cars— |
| 238. Divided— | 262. Express, |
| 66. Fixed middle bearings, | 75. Burglar-proof, |
| 67. With couplings, | 76. Floor-frames, |
| 68. Wheel-attaching devices, | 15. Freight— |
| With sleeved and fixed wheels. | 192. Frames, |
| 69. Bevel-ended— | 77. Fruit, |
| 63. Non-telescoping. | 78. Removable covers, |
| Car-movers— | 183. Removable side sections, |
| 122. Flange or axle grip, | 79. Rolling, |
| 70. Pinch-bars— | 194. Running boards and rails, |
| 71. With rail-grip, | 183. Stakes— |
| 73. Traction-wheels. | 173. Releasable, |
| Cars— | 174. Side-folding, |
| 123. Bell-cord hangers, | 195. Steps and platforms, |
| 74. Dining, | 16. Hand— |
| 14. Dumping— | 196. Geared, |
| 184. Convertible flat and hopper bottom, | 197. Lamp arrangement, |
| 185. Hopper-bottom, | 198. Merchandising, |
| Inclined-bottom— | Open street— |
| 186. Side doors, | 80. Seats, |
| 187. Inwardly-tilting sections, | 81. Side guards, |
| 188. Outwardly-tilting sections— | 19. Passenger— |
| 189. Displaceable sides, | 5. Baskets, |
| 190. Tilting-body— | 199. Double-deck, |
| 191. Displaceable sides, | 200. Dust-guards, |
| | 82. Emergency-exits, |

CLASS 105.—Continued.

- | | |
|----------------------------------|-------------------------------|
| Cars— | 119. Springs— |
| Passenger— | 120. Coil and rubber, |
| 201. Frames, | 121. Conical volute, |
| 202. Head-rests, | 122. Elliptic— |
| 83. Individual safes, | 122. Cap and bed plates, |
| Platform extensions— | 123. Multiple-disk, |
| 84. With gates, | 134. Pneumatic, |
| 204. Platforms, | 124. Rubber— |
| 205. Seat and door arrangement, | 125. Cap and bed plates, |
| 85. Steps— | 126. Zigzag. |
| Extension— | 26. Starters. |
| 86. Folding, | 27. Starters and brakes. |
| 87. Sliding, | 237. Suspended. |
| 88. With gate, | Trains— |
| 21. Safety-bridges, | 238. Power-transmitters. |
| 23. Sleeping— | 32. Trucks— |
| 90. Berth-guards, | 135. Antifriction-wheels, |
| 206. Berth-locks, | 103. Bolsters— |
| 207. Compartment arrangement, | 104. Cast, |
| 208. Convertible seat and berth, | 105. Guides, |
| 89. Curtains and rods, | 106. Pressed-steel, |
| 209. Hinged berths, | 107. Trussed, |
| 91. Ladders, | 257. Cable-grip. |
| 210. Partitions, | 108. Center bearings— |
| 211. Seat-back and upper berth, | 109. Pressed-steel, |
| 212. Suspended berths, | 11. Changeable-gage, |
| 28. Steam street, | Curve-adjusters— |
| 31. Street— | Swiveled-wheel, |
| 213. Awnings, | Electric-motor— |
| 92. Convertible open and closed, | 239. Bogies, |
| 35. Hand- straps, | 240. Equalizing-levers, |
| 214. Reversible, | 241. Motor-supporters, |
| 93. Storm-fronts, | 242. Rigid-frame, |
| 61. Vestibule. | Four-wheel— |
| 94. Derailment-guards— | 243. Bogies, |
| 215. Inclined wheels, | Curve-adjusters— |
| 95. Rail-interlocking, | Axles, radial, |
| 96. Supplemental wheels. | 137. Axles, sectional, |
| Locomotives— | 111. Frames— |
| 217. Belt-gearing, | 112. Pressed-steel, |
| 97. Draw-bar lifters, | 113. Pedestals, |
| 259. Electric— | 114. Safety-supporters, |
| 218. Belt-gearing, | Side bearings, |
| 219. Friction-roller driven, | Six-wheel— |
| 220. Geared, | 244. Bogies, |
| 221. Intermittent-grip. | Curve-adjusters— |
| 222. Longitudinal gear-shafts, | Axles, radial, |
| 223. Longitudinal worm-shafts, | Supplemental. |
| 224. Friction-roller driven, | 245. Velocipedes— |
| 225. Intermittent-grip, | 246. Bicycle attachments, |
| 227. Longitudinal shafts, | 249. Geared. |
| 228. Rack-rail, | Wheel-bodies— |
| 228. Swinging-bogie, | 140. Cast in tires, |
| 98. Telescoping pilots, | 141. Cast on hubs. |
| 260. Tenders, | 33. Wheel-fenders— |
| 99. Traction-increasers— | 249. Car and truck equalizer, |
| 175. Electric, | 250. Combined brake, |
| 229. Gripping-drivers. | 251. Fixed-scoop, |
| Mail-bag delivery— | 252. Folding hinged-scoop, |
| 230. Car-forks, | 253. Hinged-scoop, |
| 231. Catchers and cranes, | Inclined— |
| 232. Cranes, | 127. Tilt-up front, |
| 261. Projectors. | 128. Obstacle-projectors, |
| Motors— | 254. Pilot type, |
| 102. Manually-operated, | Rotary— |
| 101. Spring, | 129. Positively-driven, |
| 100. Tread-power. | 130. Trip and drop-scoop. |
| 60. Sanding devices— | 255. Trip and shoot forward, |
| 176. Chain-feed, | 256. Wheeled-scoop, |
| 263. Fluid-pressure, | 131. Wheel-tread. |
| 177. Oscillatory-feed, | Wheels— |
| Reciprocatory-feed— | 146. Bushings, |
| 178. Horizontal, | 147. Counterbalances, |
| 179. Vertical, | 148. Epicycle, |
| 233. Rotary-feed. | Flanges— |
| 234. Single rail— | 149. Independent movement, |
| 235. Side guides— | Integral— |
| Locomotives. | Cast— |
| 236. Single top and bottom rail. | 150. Hollow webs, |
| 181. Sound-deadening devices. | 151. Spokes— |
| 24. Springs— | 153. Cast-in, |
| 117. Coll— | Metallic— |
| 118. Cap and bed plates, | 154. Detachable, |
| | 155. Wooden. |
| | Tire-fasteners— |
| | 156. Bolted lap-flanges, |
| | By casting, |
| | 157. Integral flugs, |

DIVISION XXXIV.—CONTINUED.

CLASS 105.—Continued.

Wheels—	Wheels—
Tire fasteners—	Wheels—
160. Transverse intermedi-	169. Sheet-metal disks—
ate keys,	Single,
Tires—	Split castings—
Cushioned—	Detachable tires,
161. Metallic springs,	170. Wooden,
162. Rubber,	171. Webs and tires—
163. Wooden blocks,	172. Pressed-steel
164. Loose,	182. Wheel-tread surfaces—
165. Non-metallic,	142. Form,
167. Webs—	143. Multiple,
Sheet-metal disks—	144. Peripheral rollers,
168. Non-metallic filling,	145. Recessed.

CLASS 104.—RAILWAYS. (XXXIV.)

Subclasses.

154. Balloon.	22. Signals—
114. Bridge-guards.	174. Switch,
49. Buffers.	Time—
1. Car-replacers—	175. Retarders,
161. Car-attached,	70. Train-order.
162. Hinged blocks,	94. Signals, automatic—
163. Rigid blocks,	122. Agitated,
164. Shifting jacks.	123. Block,
63. Compensators—	124. Crossing,
148. Intermittent-grip,	71. Danger,
149. Slot,	72. Setting apparatus,
150. Weight.	73. Tappets,
40. Crossings—	74. Trips.
116. Movable-rail—	61. Sledways.
117. Stub.	95. Switch-chairs.
3. Deadening noise.	115. Switch-pieces.
75. Deflection-stands.	96. Switch-rods.
76. Detector-bars.	25. Switch-stands.
4. Elevated—	12. Switches—
131. Bicycle,	23. Automatic—
146. Cable rail,	77. Safety,
181. Suspended ways—	127. Derailing,
180. Switches.	155. Electric—
165. Endless carrier.	198. Controller-operated,
50. Foot-guards.	Electrofluid-pressure—
5. Frogs—	Car-controlled,
99. Movable-rail—	109. Lap,
118. Lap,	125. Pneumatic,
119. Stub,	28. Safety,
98. Spring-rail.	75. Slip,
35. Grippers—	152. Spring,
87. Automatic-release,	79. Stub,
130. Coal-car,	126. Tramway—
88. Friction,	24. Horse-treads,
89. Friction-belt.	170. Point-throwers,
132. Overstrapping,	171. Track-cams.
90. Roller,	172. Switches and signals—
91. Sprocket-wheel,	Electric—
92. Whelp-wheel.	200. Return-indication,
7. Hose bridges—	202. Trolley-actuated
167. Overhead,	switches,
168. Under-rail.	203. Trolley-contacts,
8. Inclined plane—	204. Staff systems.
113. Traction.	Track—
39. Interlocking—	178. Highway,
105. Rods,	14. Miscellaneous,
101. Selectors,	45. Portable—
106. Stands—	112. Crossovers.
120. Catch,	Track-cleaners—
121. Plunger.	65. Blade and broom,
133. Logging.	36. Centrifugal,
Moving train—	37. Dumpers,
205. Passenger-transfer.	38. Elevators,
111. Pleasure-railways.	56. Explosive,
179. Pneumatic—	100. Flangers—
177. Motor-charging.	176. Rotary,
21. Signals—	102. Vibrating,
42. Automatic alarm,	103. Hot plows,
67. Bar,	153. Oilers and washers,
Detonating—	51. Plows,
157. Automatic,	58. Removing weeds,
158. Car-placers,	06. Snow-guards,
201. Electric,	57. Stock-alarms.
159. Hand-placers,	110. Track-curves.
160. Torpedoes,	16. Track-layers—
182. Electric—	173. Tampers.
183. Block,	17. Track-platforms.
184. Block-crossing,	18. Traction—
135. Block systems,	80. Cable-shields,
180. Cab—	81. Crossing conduits,
Sectional rail—	82. Crossing streams,
187. Relay,	83. Curves,
188. Car,	207. Draft-cable.
189. Lock,	53. Running and carrying
Sectional rail—	rope,
192. Cab and block,	84. Slot-closers,
193. Crossing,	85. Slot-switches,
194. Electromanual lock,	86. Take-ups,
195. Lock,	47. Underground.
196. Track instruments,	48. Transfer-tables.
197. Trolley,	64. Truck-changers.
68. Light,	19. Turn-tables.
27. Pneumatic—	62. Yards and plants—
104. Automatic,	208. Smoke-jacks.
69. Portable,	

DIVISION XXXV.

EXAMINER NIXON.

CLASSES.—24, Buckles, Buttons, Clasps, Etc.; 40, Card, Picture, and Sign Exhibiting; 241, Garment-Supporters; 116, Signals; 132, Toilet.

CLASS 24.—BUCKLES, BUTTONS, CLASPS, ETC. (XXXV.)

(For definitions see Bulletin No. 14, p. 14.)

Subclasses.

2. Album-fastenings.	194. Buckles—
3. Article-holders—	194. Sliding part or wedge—
4. Chatelaine safety-hooks,	195. Hook-attached,
5. Flower—	196. Looped-strap.
6. Pin-attached,	40. Buttons.
7. Napkin—	90. Buttons and fasteners—
8. Hook,	91. Adjustable,
9. Neck-inclosing,	92. Cloth shanks and covers,
10. Pencil—	113. Covers,
11. Clasp-attached,	94. Deflecting prong or rivet—
12. Pin-attached,	95. Anvil or plate,
13. Pin-attached,	96. Integral,
14. Reel,	97. Hinged-leaf—
15. Sleeve.	98. Axially-rotating,
20.5. Bag-fasteners.	99. Double,
16. Bale and package ties—	100. Sliding,
20. Metal bands—	101. Integral or rigid stud,
21. Separate connections—	102. Link,
22. One-piece—	93. Multiple attachment,
23. Sheet-metal,	114. Pads,
24. Pivoted parts,	103. Pin-attached,
25. Wedging parts,	104. Separable
26. Wire,	105. Screw,
17. Packet-holders—	106. Spring—
18. Cord,	107. Resilient-head,
19. Strap-tighteners,	108. Resilient-socket,
27. Wire—	109. Rotating-head,
28. Separate connections—	110. With operating devices,
29. Wire,	111. Separate thread-bar,
30. Wooden bands.	100.5. Sliding-bar,
31. Belt-fasteners—	112. Spiral fastener.
33. Hinged,	243. Clasps—
34. Lacing,	244. Ball or roll,
35. One-piece—	245. Button and loop—
36. Deflecting-prong,	246. Pivoted or resilient arms,
37. Screw-clamp,	247. Slide,
38. Splice,	248. Pivoted
32. Tighteners,	249. Broom or handle,
39. Wire.	250. Separate lock-lever,
103. Buckles	251. Sliding-lock,
Combined pressure-bar and guard—	252. Spring
185. Hook-attached,	253. Axial-coil,
184. Garment-shielded,	254. Broom or handle,
184. Harness—	255. Protected jaws,
188. Clamping	256. Resilient
189. One-piece,	257. Circular,
170. Pivoted part or lever,	258. Broom or handle,
171. Sliding part or wedge,	259. Separate lock-lever,
165. Combined buckles and snap-hooks,	260. Sheet-metal,
172. Cross-balls	261. Sliding-lock,
173. Pivoted stud-plate,	262. Wire,
174. Rigid-stud,	263. Sliding-jaw,
166. Lock	264. Wedge-slot.
167. Key,	137. Clothes-pins
183. Loop-shields,	138. Kerf,
Penetrating-tongue—	139. Wire.
Guarded,	115. Cord and rope holders
175. Multiple,	116. Chain,
176. One-piece,	123. Couplings and sockets
178. Pivoted	124. Nut-clamp,
179. Lever-actuated,	125. Screw-clamp,
180. Stud,	126. Sliding part or wedge,
181. Sliding part or wedge,	127. Friction-disk,
182. Strap-loops and attaching devices,	128. Knot-engaging,
197. Looped-strap,	129. Lacing-terminals—
198. One-piece—	130. Friction-disk,
199. Hook-attached,	131. Knot-inclosing,
200. Looped-strap,	132. Pivoted-jaw,
Penetrating-prong	133. Resilient-clip,
One-piece	134. Wire,
186. Hook-attached,	129. One-piece
187. Pivoted	130. Wedge-slot,
188. Hook-attached,	131. Wire,
190. Slide,	132. Pivoted-part—
191. Pivoted-lever—	133. Cam-lever,
192. Hook-attached,	134. Lever-tension,
193. Looped-strap,	135. Screw-clamp,
	136. Sliding part or wedge.
	Cuff-holders—
	41. Adjustable,
	42. Clasp-button,

CLASS 24.—Continued.

44. Cuff-holders—	153. Pin-fasteners—
45. Clasp-clasp,	154. Paper—
46. Clasp-hook,	155. Suspending devices,
47. Clasp-pin,	160. Pivoted,
48. Pin-button,	161. Resilient,
49. Pin-fastener.	162. Sliding,
268. Draw-strings.	152. Upholstering.
73. Fasteners combined—	207. Pivoted edge stays.
74. Buckle-buckle—	208. Resilient connections.
75. Separably-connected,	201. Separable fasteners—
76. Buckle-pin,	202. Buttonhole-protectors,
77. Buckle separable—	Head-and-socket—
78. Pivoted-lever buckle,	Axial closures—
79. Clasp-buckle,	206. Hinged cap-plate,
80. Clasp-button,	210. Link-button,
81. Clasp-clasp—	209. Pivoted-head,
82. Pin-attached,	212. Pivoted or sliding,
83. Separably-connected,	lock,
84. Clasp-hook,	213. Resilient-head—
85. Clasp-pin,	214. Rigid-socket,
86. Pin-hook,	215. Wire,
87. Pin-pin—	216. Resilient-socket—
88. Separably-connected.	217. Rigid-head,
89. Interchangeable button-loop and pin.	218. Wire,
140. Lacing devices—	219. Rigid-head,
141. Eyelets—	220. Rigid-socket,
142. Plastic-head,	221. Rotating-head,
143. Laces and tips,	222. Lateral closures—
144. Studs—	223. Auxiliary locking devices,
145. Closed-loop,	224. Resilient,
146. Hook,	225. Hook-and-eye—
147. Moving-part,	226. Sheet-metal—
148. Plastic-head,	227. Metallic attachment,
149. Roller.	228. Wire—
1. Miscellaneous.	229. Metallic attachment,
40. Necktie-fasteners—	230. Lateral-sliding,
Bands—	203. Multiple—
53. Depressors—	204. Integrally-connected,
54. Button-engaging,	205. Multiple-operated,
55. Pin or spur,	207. Runway-engaging,
51. End-securing pin,	208. Step-adjusting.
52. Gripping,	231. Snap-hooks—
56. Button-engaging—	241. Locking devices—
57. Adjustable,	242. Tension-operated,
58. Cord-loop,	232. Pivoted—
60. Pin-attached,	233. Spring—
59. Pivoted or sliding jaw,	234. Coil—
61. Collar-button combined—	235. Axial,
62. Clasp-attached,	236. Resilient—
63. Pin-attached,	237. One-piece,
64. Separable fastener,	238. Sliding
65. Tie-attached hook.	239. Spring,
66. Paper-clips.	240. Watch-chain-attaching.
67. Paper-fasteners.	205. Strap-end-attaching devices.
150. Pin-fasteners—	68. Strap-tighteners—
151. Arm-pit-shields,	69. Cam-lever and loop—
156. Guards	70. Step-adjusted,
157. Pivoted,	71. Strap-attached folding-lever.
158. Sliding,	72. Trouser guards and straps.
159. Wire,	
155. Loss-preventing devices,	

DIVISION XXXV.—CONTINUED.

CLASS 40.—CARD, PICTURE, AND SIGN EXHIBITING. (xxxv.)

(For definitions see Supplement No. 4, p. 2963.)

Subclasses.

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| 107. Calendars— | 78. Changeable exhibitors— |
| 122. Card-pockets, | 79. Shifters— |
| 109. Charactered slide, | 80. Reciprocating, |
| 110. Character-markers, | 81. Revolving, |
| 117. Double reel and web, | 82. Revolving pack-case, |
| 118. Endless, | 83. Single reel and web— |
| 119. Hinged leaves, | 84. Reel-cabinets— |
| 108. Pencil attachments, | 85. Revolving, |
| 123. Printing arrangement, | 86. Spring-rewind, |
| 111. Rotatable— | 87. Sliding plates, |
| 112. Clutch take-up, | 88. Bolt-operated, |
| 113. Disk, | 105. Train-order holders. |
| 114. Single-axis— | 2. Checks, labels, and tags— |
| 115. Disk, | 3. Animal-markers, |
| 116. Single reel and web, | 4. Bottle, |
| 120. Stands, | 5. Changeable-reading— |
| 121. Tear-off tablets. | 6. Baggage-checks, |
| 124. Card-racks. | 7. Display-box labels, |
| 28. Changeable exhibitors— | 8. Door-knob and drawer-pull, |
| 29. Aerostatic, | 20. Fasteners— |
| 41. Axle-operated— | 21. Band, |
| 42. Double reel and web, | 22. Barbed, |
| 43. Endless, | 23. Clasp, |
| 44. Rotatable, | 24. Pin-loop, |
| 106. Couplings, | 26. Spring-hook, |
| 60. Door-operated, | 25. Spur, |
| 86. Double reel and web— | 9. Hat, |
| 87. Clutch take-up— | 10. Holders— |
| 88. Reversible-clutch, | 11. Clip, |
| 95. Intergearred reels, | 12. Cornice, |
| 93. Reversing-gears— | 13. Hinged-clamp, |
| 94. Clutch take-up, | 14. Hinged-clamp and spur, |
| 89. Spring-rewind— | 15. Lock, |
| 91. Clutch let-off— | 16. Slide, |
| 92. Obstacle-trip, | 17. Slide and detent— |
| 90. Clutch take-up, | 18. Limited-movement, |
| 52. Electrically-controlled— | 19. Tubular, |
| 53. Electromotor-operated, | 27. Reinforced. |
| 54. Magneto-clutch let-off, | 1. Exhibitors. |
| 55. Magneto-clutch take-up, | 152. Picture-frames— |
| 56. Obstacle-controlled circuit-closers— | 156. Card or picture retainers, |
| 57. Electromotor-operated, | 153. Cord or wire, |
| 58. Magneto-clutch let-off, | 157. Cover-retainers, |
| 59. Magneto-clutch take-up, | 154. Embossed, molded, rolled, or stamped, |
| 96. Endless— | 155. Extensible, folding, or knockdown, |
| 99. Clutch take-up, | 158. Mats, mounts, and backs— |
| 97. Hinged leaves, | 159. Pocketed, |
| 98. Radial leaves, | 160. Relief-picture. |
| 37. Fluid-operated— | 145.1. Picture-hangers— |
| 38. Double reel and web, | 145.2. Adjustable— |
| 39. Rotatable— | 145.3. Cord— |
| 40. Illuminated, | 145.4. Pawl and ratchet, |
| 100. Folding web and reel— | 145.6. Slide and clamp, |
| 101. Clutch take-up, | 145.5. Steps, |
| 102. Hinged leaves— | 145.9. Molding-hooks, |
| 103. Leaf-releasers, | 145.7. Plaque-retainers, |
| 104. Leaf-turners, | 145.8. Retaining-cord. |
| 61. Inscription-covers— | 146. Picture stands and supports— |
| 62. Sliding, | 148. Frames, |
| 63. Interchangeable plates— | 147. Illuminators, |
| 64. Sliding, | 149. Single-blank— |
| 30. Motor-operated— | 150. Braces, |
| 31. Double reel and web. | 151. Wire. |
| 32. Endless, | 125. Signs— |
| 33. Rotatable— | 127. Aerostatic, |
| 34. Disk, | 126. Dummies, |
| 35. Hinged leaves, | 136. Embossed, molded, rolled, or stamped, |
| 36. Shifters, | 128. Hanging, |
| 45. Obstacle-operated— | 130. Illuminated— |
| 46. Double reel and web— | 131. Lamp attachments, |
| 47. Clutch take-up, | 132. Lamp-boxes— |
| 48. Endless, | 133. Perforated-face, |
| 49. Rotatable, | 134. Luminous-paint, |
| 50. Shifters, | 140. Interchangeable letters— |
| 51. Pendulum-operated, | 142. Fasteners— |
| 67. Pivoted plates, | 143. Prong, |
| 68. Rotatable— | 144. String, |
| 69. Clutch take-up, | 141. Glass, |
| 70. Disk— | 135. Multiple-layer, |
| 71. Clutch take-up, | 129. Portable, |
| 72. Hinged leaves— | 145. Post attachments, |
| 73. Clutch take-up, | 137. Variable-reading, |
| 77. Illuminated, | 138. Vibratory— |
| 76. Multiple-drum controllers, | 139. Motor-operated. |
| 74. Radially-movable leaves— | |
| 75. Clutch take-up, | |

CLASS 241.—GARMENT-SUPPORTERS. (xxxv.)

Subclasses.

- | | |
|-----------------------------|---------------------------|
| 1. Hose— | Waist-line body-garment |
| 2. Belt-attached, | Shoulder-suspension— |
| 3. One-point suspension, | 18. Cast-offs, |
| 4. Shoulder-suspension. | 19. Connections— |
| 5. Limb-encircling— | 20. Lacing, |
| 6. Garment-attached. | 21. Resilient, |
| 7. Waist-line body-garment— | 22. Self-adjusting— |
| 8. Belts, | 23. Cord or strap, |
| 9. Belt-attached, | 24. Pivoted, |
| 10. Belt-inserted section, | 25. Garment attachment |
| 11. Belt-slide, | 26. Step-adjusting, |
| 12. Shoulder-suspension— | 27. Tabs— |
| 13. Belt-converting, | 28. Drawers-supports, |
| 14. Binding-clips— | 29. Two-point suspension, |
| 15. Button-loop, | 30. Waist-formers— |
| 16. Connection, | 31. Buckles. |
| 17. Braces combined, | |

CLASS 116.—SIGNALS. (xxxv.)

Subclasses.

- | | |
|------------------------|------------------------|
| 1. Alarms— | Bell-hanging— |
| 53. Bicycle. | 40. Ringing. |
| Burglar— | 12. Flagstaff-holders. |
| 41. Combined, | 31. Indicators— |
| 42. Detonating, | 45. Barbers' turns, |
| 44. Ringing, | 60. Medicine-dose, |
| 11. Fire, | 47. Office, |
| 15. Leak, | 48. Peg, |
| 58. Poison-indicators, | 49. Rotary, |
| 23. Shoal, | 50. Sliding, |
| 59. Steam-whistles. | 52. Station. |
| 32. Annunciators. | Locks— |
| 33. Bells— | 61. Alarm— |
| 55. Bicycle— | 62. Detonating. |
| 56. Wheel-actuated, | 22. Semaphores. |
| 34. Call, | Signals— |
| 35. Door, | 9. Car, |
| 37. Sleigh. | 13. Fog, |
| 38. Bell-hanging— | 18. Nautical. |
| 39. Pulls, | 19. Pneumatic. |

CLASS 132.—TOILET. (xxxv.)

Subclasses.

- | | |
|-------------------------------------|----------------------|
| 30. Boot-holders, horns, and jacks. | 23. Hair structures— |
| 3. Combs— | 24. Making. |
| 17. Cleaners, | 25. Hat-fasteners. |
| 16. Personal wear. | 8. Mustache-guards. |
| 18. Hair-crimpers. | 27. Pin-holders. |
| 19. Hair-curlers— | 28. Powder-puffs. |
| 20. Rotary, | 29. Razor-cleaners. |
| 21. Self-heating. | 15. Shaving-cups. |
| 22. Hair-fasteners. | 11. Toilet-cases. |
| | 12. Toothpicks. |

DIVISION XXXVI.

EXAMINER MORTON.

CLASSES.—156, Curtains, Shades, and Screens; 33, Drafting; 34, Driers; 159, Engraving; 73, Measuring Instruments, 170, Wind-Wheels.

CLASS 156.—CURTAINS, SHADES, AND SCREENS. (XXXVI.)

Subclasses.

- | | |
|-----------------------------------|-------------------------------------|
| 15. Awnings— | Shade |
| 42. Frames, | 25. Fastenings, |
| 43. Rigid, intermovable sections, | 26. Guides, |
| 44. Roll and reel, | 27. Hangers, vertically-adjustable, |
| 45. Roller-gearing, | 28. Raisers, |
| 41. Carriage-cord tighteners, | 29. Rollers |
| 32. Curtain-cord tighteners, | 30. Dropping, |
| 40. Curtain-lasels, | 31. Friction-brake, |
| Curtain— | 35. Ratchet-and-pawl, |
| 33. Holders, | 30. Spring, |
| 19. Poles, | 31. Sticks, |
| 20. Poles and rings, | 17. Venetian blinds, |
| 22. Pole-supports, | 13. Window-cornices, |
| 21. Rings and pins, | 14. Window-screens— |
| 46. Theater, | 37. Exits, |
| 16. Flexible blinds, | 38. Extensible, |
| 23. Shade and curtain hangers, | 39. Rolling, |
| Shade— | 10. Window-shades, |
| 24. Brackets, | |

CLASS 33.—DRAFTING. (XXXVI.)

Subclasses.

- | | |
|---------------------------|---------------------------|
| 13. Beam-compasses. | 17. Drawing-pens. |
| 1. Calipers and dividers— | 5. Ellipsographs. |
| 21. Joints, | 6. Pantographs. |
| 22. Legs and points, | 16. Perspectographs. |
| 23. Point-parallelizing, | 8. Plotters. |
| 24. Proportional, | 12. Protractors. |
| 25. Setters— | 18. Rulers— |
| 26. Screws— | 19. Parallel, |
| 27. Tangent, | 20. Slate and blackboard. |
| 28. Vertical, | 9. Scribes. |
| 2. Curve-scribers. | 10. Stair-curves, |
| 15. Drawing-boards. | 14. T-squares. |

CLASS 34.—DRIERS. (XXXVI.)

Subclasses.

- | | |
|---------------------------|-------------------------|
| 1. Absorbent. | 25. Push-bar. |
| 2. Baffles and screens. | 26. Racks and stands. |
| 3. Condensers. | Reels |
| Cylinder— | 27. Skein, |
| 4. External, | 28. Tray-carrier, |
| Internal— | 29. Winding, |
| 5. Rotary horizontal, | 30. Retort. |
| 6. Rotary inclined, | 31. Rolls. |
| 7. Stationary horizontal, | 32. Rotary disk. |
| 8. Stationary inclined, | Shafts |
| 9. Vertical, | 33. Inclined, |
| 10. Disk and hopper. | 34. Vertical, |
| 11. Elevator. | 35. Zigzag, |
| 12. Endless carrier. | 36. Shaft and cylinder. |
| 13. Endless scraper. | 37. Shaft and shelf. |
| Floors | 38. Shaking, |
| 14. Fixed, | 39. Shelf and tray. |
| 15. Tilting-section. | 40. Sliding rack. |
| 16. Forms and platens. | 41. Solar, |
| 17. Frames and trays. | 42. Spiral, |
| 18. Heaters. | 43. Stirrers. |
| 19. Houses and kilns. | 44. Trough and beater. |
| 20. Lath and chain. | 45. Trough and screw. |
| 21. Pans. | Truck and rail— |
| 22. Pan and boiler. | 46. Horizontal, |
| 23. Pan and scraper. | 47. Inclined, |
| 24. Processes. | 48. Web. |

CLASS 159.—ENGRAVING. (XXXVI.)

Subclasses.

- | | |
|----------------------------------|---------------------|
| 1. Engraving and tools. | Engraving-machines— |
| 2. Engraving-machines | 7. Pantographic, |
| 3. Duplicating | 8. Profiling, |
| 4. Automatic, | 9. Rosette |
| 5. Jointed arms, | 10. Routing. |
| 6. Electromagnetic tool control, | |

CLASS 73.—MEASURING INSTRUMENTS. (XXXVI.)

Subclasses.

- | | |
|------------------------------|------------------------------|
| 2. Anemometers. | Calipers— |
| 3. Balances | 105. Dial, |
| 101. Electrical attachments, | 106. Stem. |
| 99. Equal arms, | 184. Calorimeters. |
| 102. Pick-up weights, | 9. Cloth-measuring machines. |
| 100. Recording. | 11. Coin-testers. |
| 4. Barometers. | 125. Compasses |
| 5. Bathometers. | 126. Azimuth attachments, |
| 6. Bevels. | |

CLASS 73.—Continued.

- | | |
|--------------------------------------|---------------------------------|
| Compasses— | 62. Measuring vessels— |
| 127. Deviation-correction, | 165. Capacity adjustable, |
| 128. Deviation-indicators, | 166. Depth-indicating. |
| 129. Liquid. | 167. Meters— |
| 73. Conformators. | 1. Air and gas |
| 13. Dividing-engines. | 12. Diaphragm, |
| 130. Dry measurers— | 98. Disk, |
| 131. Bulk-controlled, | 28. Oscillating, |
| Closures— | 30. Piston, |
| 132. Independent, | 68. Proportional, |
| 133. Interacting, | 37. Rotary, |
| 134. Transfer-measure— | 45. Spirit, |
| Pivoted— | 80. Pitch-boards. |
| 135. Vertical axis, | 81. Planimeters. |
| 136. Weight-controlled. | 72. Plumb-bobs. |
| 15. Dynamometers. | 71. Plumb-levels. |
| 16. Gages— | 31. Pressure-gages— |
| 138. Assorting, | 109. Bourdon, |
| 139. Collocating— | 110. Diaphragm, |
| 140. Clapboards, | 111. Piston. |
| 141. Tool and work, | Scales— |
| 142. Wheel and axle, | 39. Beams, |
| 143. Conforming, | 8. Cart, |
| 107. Depth, | 23. Hydrostatic, |
| 144. Dimension, | 41. Pans, |
| 145. Marking— | 29. Pendulum, |
| 146. Edge-guided, | 121. Platform, |
| 77. Micrometer, | 104. Price, |
| 147. Size, | 38. Sack, |
| 66. Surface, | 46. Spring. |
| 148. Templet, | 122. Ships' logs. |
| 67. Track, | 113. Spacing instruments. |
| 149. Truing, | 42. Specific-gravity apparatus. |
| 54. Water— | 44. Sphygmoscopes. |
| 82. Float, | 112. Spirometers. |
| 20. Grain-tallies. | 47. Squares— |
| 22. Hydrometers. | 115. Center, |
| 24. Hygrometers. | 116. Folding, |
| Instruments— | 103. Steelyards. |
| 180. Compound— | 117. Telemetry. |
| 185. Primarily calipers or dividers, | 50. Testing illuminating fluids |
| 186. Primarily gages, | 51. Testing-machines. |
| 187. Squares and bevels, | 52. Thermometers— |
| 188. Squares and levels, | 118. Metallic, |
| 151. Miscellaneous, | 119. Oven, |
| 152. Pivots and bearings. | 32. Pyrometers, |
| 79. Lacometers. | 83. Telethermometers. |
| 63. Leather-measuring. | 21. Tollers. |
| Levels— | 120. Ullage-rods. |
| 70. Spirit— | 55. Weather-vanes. |
| 124. Clinometer. | Weighers— |
| 153. Liquid-measurers— | Alternating-feed— |
| 154. Pumps— | Divided-bucket, |
| Rotary, | 168. Separate buckets, |
| 155. Regulable— | 169. Compound, |
| Transferrers— | 170. Discharge-poise— |
| Independent, | Power, |
| 156. Interacting, | 172. Drip-poise— |
| 158. Union transferer. | Force-feed, |
| Transferrers— | 173. Multiple valves, |
| Compound | 174. Single-valve, |
| 159. Independent | 175. Electrically-controlled, |
| 160. Pumps, | 176. Miscellaneous, |
| 161. Interacting, | 177. Oscillating-bucket, |
| 163. Transferring measure | 178. Positively-actuated |
| Union transferer. | 179. Regulating and charge |
| Measures— | handling. |
| 36. Rotary, | 180. Removable-receptacle, |
| 40. Scale, | 181. Rotary-bucket, |
| 64. Shoemakers', | 182. Successive-operation. |
| 123. Speed, | 56. Weights. |
| 48. Tailors', | |
| 49. Tape. | |

CLASS 170.—WIND-WHEELS. (XXXVI.)

Subclasses.

- | | |
|------------------------|--------------------------------|
| Automatic regulators— | Wind-wheels— |
| 8. Bucket, | 1. Horizontal, |
| 9. Float, | 2. Oscillating, |
| 10. Float and ratchet, | 7. Vertical feathering-blades, |
| 11. Piston, | 3. Vertical solid-wheel. |
| 12. Tilting-tank. | |
| 5. Gearing. | |

DIVISION XXXVII.

EXAMINER A. F. KINNAN.

CLASSES.—173, Electricity: Conductors; 175, Electricity: General Applications; 176, Electric Lighting.

CLASS 173.—ELECTRICITY. CONDUCTORS. (XXXVII.)

Subclasses.

13. Conductors—	Connectors—
81. Anti-inductive,	Socket-and-plug—
264. Insulated—	275. Multiple-contact.
265. Air,	276. Single-contac.,
266. Armored—	263. Wire-splices—
267. Spiral strip,	303. Beveled clamp,
Joints—	Sleeved—
268. Insulated.	304. Bent or upset end,
Connectors—	305. Crimped or twisted.
259. Binding-posts,	28. Insulators—
269. Cord-terminals,	311. Bushings,
270. Couplers—	312. Cleats,
271. Air-pipe contacts,	313. Conductor-holders—
272. Water-pipe contacts,	314. Divided insulator,
273. Line-tappers,	315. Hooks,
Plugs—	316. Non-aligning slots,
274. Multiple-contact,	317. Twisted-slot,
310. Single-contact,	318. High-potential,
262. Rail-bonds—	319. Insulated nails,
Surface-connected—	320. Insulating fabrics,
277. Bolt or clamp,	321. Supports.
278. Soldered,	31. Lightning-rods.
279. Spring-pressed,	244. Machines for covering.
280. Socket-connected—	251. Supports and hangers.
281. Riveted,	
282. Rivet and wedge,	
283. Wedge,	

CLASS 176.—ELECTRIC LIGHTING. (XXXVII.)

Subclasses.

Incandescing composi-	Lights—
tions—	Arc—
323. Electrodes—	Positive-feed—
324. Carbon,	109. Gear-clutch,
326. Manipulators,	220. Step gear-clutch,
325. Structures,	112. Special features
327. Filaments and glowers—	18. Incandescent—
328. Carbon,	317. Second-class con-
331. Connections,	tors,
330. Manipulators,	113. Special features—
329. Structures,	336. Portable batte-
332. Mantles.	lamps,
Lights—	335. Speculum,
Arc—	98. Sockets and keys,
110. Arc and incandes-	196. Stopper,
cent,	318. Vapor-conductors—
104. Gravity-feed—	322. Mercury,
105. Clutch,	19. Systems—
216. Double-dog clutch,	166. Automatic-regulat-
106. Gear-clutch,	129. Car,
217. Pivot-dog clutch,	167. Display,
218. Ring-clutch,	167. Hand-regulation,
111. Non-feeding,	130. Secondary-battery.
107. Positive-feed—	319. X-ray apparatus—
108. Clutch,	320. Tubes.
219. Electric gear-clutch,	

CLASS 175.—ELECTRICITY. GENERAL APPLICATIONS. (XXXVII.)

Subclasses.

265. Applications, special.	Switchboards—
Circuit-breakers—	300. Details,
Automatic—	301. Movable-contact—
Electromagnetic—	302. Pivoted-arm,
267. Non-closable,	303. Plunger,
268. Overload,	304. Plates,
269. Overload and under-	305. Plates and strips,
load,	306. Strips.
270. Retarded,	Switches—
271. Reverse-current,	Automatic—
272. Underload.	279. Electromagnetic,
Cut-outs—	280. Suspended - wire - con-
273. Thermal—	trolled,
274. Branch,	281. Electromagnetic,
275. Heater,	308. Fluid-pressure,
276. Lamp,	309. Float-operated,
277. Plug,	282. Mechanical—
278. Successive.	283. Longitudinally - recip-
181. Demagnetizing.	roccating—
264. Discharging static	284. Snap,
charges.	285. Loop,
21. Electromagnets.	Oscillating snap—
Igniting devices—	286. Auxiliary snap - con-
Automatic,	tact,
115. Cigar,	287. Double snap,
206. Inductional,	288. Single snap,
116. Manual,	289. Rotary—
91. Portable.	290. Rotary snap,
30. Lightning-arresters—	291. Push-button,
Magnetic,	292. Thermal cut-out,
214. Thermal.	293. Two-button snap.
182. Ore-detectors.	Systems—
Switchboards—	294. Safety.
298. Miscellaneous,	183. Testing.

DIVISION XXXVIII.

EXAMINER TUCKER.

CLASSES.—166, Artesian and Oil Wells; 215, Bottles and Jars; 119, Care of Live Stock; 35, Educational Appliances; 43, Fishing and Trapping; 120, Stationery; 125, Stone-Working.

CLASS 166.—ARTESIAN AND OIL WELLS. (XXXVIII.)

Subclasses.

- | | |
|-------------------------|------------------------|
| 1. Casing-heads. | Earth-auger— |
| 2. Cleaning. | 13. With carriers. |
| 3. Drilling and boring. | 6. Reamers. |
| 4. Drill-jars. | 10. Sucker-rods. |
| 5. Drill-rod grabs. | 7. Tube-clamps. |
| 11. Earth-auger— | 8. Tubing and packing. |
| 12. Bits, | 9. Walking-beams. |

CLASS 215.—BOTTLES AND JARS. (XXXVIII.)

Subclasses.

- | | |
|------------------------------|-------------------------|
| 1. Bottle attachments— | Bottle-stoppers— |
| 2. Clip, | Tube— |
| 116. Nursing-bottle holders. | 59. Vent. |
| 3. Bottle-cases. | 60. Bottle-valves— |
| 8. Bottle-stoppers— | Controllers— |
| 9. Cap— | 61. Spring, |
| 10. Crimped, | 62. Weight— |
| 11. Elastic, | 63. Pendent, |
| 12. Frangible, | 64. Float, |
| 13. Screw, | 65. Guards— |
| 14. Disk, | 66. Caps, |
| 15. Dose— | 67. Fasteners, |
| 16. Droppers, | 68. Multiple, |
| 100. Ejectors, | 103. Necks, separable, |
| 17. Expanding— | 114. Siphon-head— |
| 18. Cam, | 115. Spring-controlled, |
| 19. Screw, | 69. Valves and seats. |
| 20. Fasteners— | 70. Bottles— |
| 21. Ball— | 71. Compartment, |
| 22. Locking, | 72. Indicating— |
| 23. Cap— | 112. Internal, |
| 24. Tie, | 113. Poison, |
| 101. Expanding, | 73. Jugs, |
| 25. Spring— | 77. Necks— |
| 26. Clip, | 78. Breakable— |
| 27. Wire, | Bottom-fillers, |
| 28. Internal— | Stopper-fasteners— |
| 29. Ball, | Disk, |
| 30. Extension— | 107. Ring, |
| 31. Wire, | 108. Spring, |
| 32. Plug, | Stoppers— |
| 33. Locks, | 109. Expanding, |
| 34. Pivoted— | 110. Multiple, |
| 35. Locking— | 111. Plastic, |
| 36. Ball, | 79. Nesting, |
| 37. Cam— | 117. Nursing. |
| 38. Plug, | 80. Jar-closures— |
| 39. Rotary, | 81. Cap— |
| 40. Lever— | 82. Grooved, |
| 41. Lever and yoke, | 83. Ring, |
| 42. Plug— | 84. Screw— |
| 43. Slotted, | 85. Inclines, |
| 44. Top— | 86. Ring, |
| 45. Slotted, | 87. Clamp— |
| 46. Wire, | 88. Lever, |
| 47. Screw, | 89. Screw, |
| 48. Spring— | 90. Pivoted, |
| 49. Catch, | 91. Spring— |
| 50. Plug— | 92. Bow, |
| 51. Composite, | 93. Inclines, |
| 52. Screw, | 94. Packing, |
| 53. Pullers, | 95. Stoppers— |
| 54. Tube— | 96. Expanding, |
| 55. Valve— | 97. Plug— |
| 56. Ball, | 98. Screw. |
| 57. Rotary, | 99. Jars— |
| 58. Screw, | 104. Ejecting. |
| 59. Spring, | |

CLASS 119.—CARE OF LIVE STOCK. (XXXVIII.)

Subclasses.

- | | |
|---------------------------------|------------------------------|
| Animal-stocks— | 52. Nose-bags. |
| 14. Hog-traps, | 61. Nose-rings. |
| 15. Horse and cattle, | 12. Pokes. |
| 16. Sheep. | 5. Poultry culture— |
| 46. Bird cages and houses. | 68. Brooders, |
| 17. Catching and holding tools. | 70. Nest-eggs, |
| 55. Collars. | 69. Nests. |
| 48. Currycombs— | 62. Ringers and markers. |
| 65. Cleaning attachments. | 63. Shields. |
| 47. Gags and muzzles— | 9. Stanchions. |
| 66. Weaners, nostril-a-t- | Steading and feeding— |
| 67. Weaning-bits. | 20. Calf-feeding, |
| 18. Gangways. | 21. Combined troughs and |
| 3. Grooming. | racks, |
| Hitching devices— | 71. Drinking fountains and |
| 56. Posts and post attach- | troughs. |
| ments, | 22. Feed-racks, |
| 57. Rotary-arm, | 23. Feed-troughs— |
| 58. Spring-reel, | 64. Automatic, |
| 59. Ties, | 24. Releasing devices, |
| 60. Travelers. | 25. Stall-floors, |
| 51. Hopples. | 26. Stalls, sheds, and pens. |
| 4. Incubators. | 53. Stock-cars. |
| 54. Manure-pouches. | 27. Stock-sorters. |

CLASS 35.—EDUCATIONAL APPLIANCES. (XXXVIII.)

Subclasses.

- | | |
|---------------------|---------------------|
| 1. Alphabet-blocks. | 6. Maps. |
| 2. Arithmetic. | 12. Miscellaneous. |
| 3. Astronomy. | 8. Penmanship. |
| 15. Blackboards. | 9. Reading. |
| 13. Cryptography. | 10. Slates. |
| 5. Globes. | 14. Slate-mufflers. |

CLASS 43.—FISHING AND TRAPPING. (XXXVIII.)

Subclasses.

- | | |
|-------------------------------|------------------------|
| 2. Decoys. | Insect-destroyers— |
| Fishing— | 1. Catchers, |
| 28. Bait and tackle holders, | 5. Fumigators, |
| 3. Fishways, | 14. Powder-dusters. |
| 4. Floats, | Traps— |
| 6. Harpoons and spears, | 19. Cage, |
| 7. Hooks— | 20. Fish, |
| 30. Artificial-bait, | 21. Impalement, |
| 31. Spring-actuated, | 22. Insect— |
| 9. Nets and seines, | 32. Mechanical, |
| 29. Oyster and pisci culture, | 23. Jaw, |
| 11. Oyster-dredges, | 24. Self and ever set, |
| 12. Oyster rakes and tongs, | 25. Sporting, |
| 15. Reels— | 26. Victim-set, |
| 33. Spring-operated, | 27. Wire-choker. |
| 16. Rods. | |
| 17. Sinkers. | |

DIVISION XXXVIII.—CONTINUED.

CLASS 120.—STATIONERY. (XXXVIII.)

(For definitions see Supplement No. 3, p. 2698.)

Subclasses.

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|-------------------------------|------------------------------|
| 24. Blotters— | 8. Miscellaneous. |
| 25. Hand-attached, | 75. Moisteners— |
| 26. Rotary, | 76. Roller. |
| 27. Supports. | 77. Mucilage-holders— |
| 1. Combination devices— | 78. Brushes, |
| 2. Blotters and rulers, | 79. Scrapers, |
| 3. Inkstands and calendars, | 80. Spreaders— |
| 4. Inkstands and pen- | 81. Flexible-cap. |
| racks— | 82. Paper-weights. |
| 5. Self-opening, | 9. Pen and pencil cases— |
| 6. Moisteners and sealers, | 20. Automatic-catch, |
| 7. Pencil-sharpeners and | 13. Chalk-holders, |
| erasers. | 21. Clutch— |
| 28. Copy-holders— | 22. Automatic, |
| 29. Movable copy— | 10. Compound— |
| 30. Roller-feed— | 11. Automatic, |
| 31. Positive-grip, | 12. Screw-and-slide, |
| 32. Step-by-step move- | 16. Magic, |
| ment, | 14. Polypointed, |
| 33. Movable-marker— | 18. Screw, |
| 34. Step-by-step move- | 15. Sharpening, |
| ment, | 19. Slide, |
| 35. Envelop-openers. | 17. Step-by-step. |
| 36. Erasers— | 83. Pencils— |
| 37. Combination, | 84. Attachments. |
| 39. Knife, | Pencil-sharpeners— |
| 38. Pencil attachments, | implements— |
| 40. Rubber. | Compound— |
| 41. Erasing-shields. | 85. Reciprocatory- |
| 42. Fountain-pens— | movement, |
| 50. Feeders— | 88. Knife-gages, |
| 51. Modified-nib, | 87. Point-protectors, |
| 52. Modified pen-section, | 89. Reciprocatory - move- |
| 46. Force-feed and filler— | ment— |
| 47. Piston, | 90. Shaving, |
| 49. Retractable pen-section, | 91. Revolving-pencil, |
| 43. Special-use, | 92. Rotary-movement— |
| 44. Stylographic— | 93. Shaving, |
| 45. Spring-actuated spin- | 94. Machines— |
| dle, | 96. Rotating-cutter, |
| 48. Valved. | 95. Rotating cutter and |
| 53. Hand and arm rests— | pencil. |
| 56. Adjustable-height, | 97. Pen-extractors. |
| 55. Book-supported, | 98. Penholders— |
| 54. Traveling. | 100. Angular adjustment, |
| 57. Inkstands— | 102. Grips— |
| 59. Barometer, | 103. Detachable, |
| 58. Desk-attached, | 104. Ink-guards, |
| 71. Dip-gages, | 99. Multiple, |
| 60. Fountain— | 101. Releasing, |
| 61. Automatic, | 105. Ruling-guards, |
| 62. Compressible ink-bag, | 106. Slant devices— |
| 63. Flexible-diaphragm— | 107. Supporting. |
| 64. Automatic, | 108. Pen racks and cleaners. |
| 65. Gravity-feed, | 109. Pens— |
| 66. Movable dip-cup, | 113. Reservoir attachments— |
| 72. Opening and closing de- | 114. Nib-attached— |
| vices, | 115. Integral, |
| 67. Self-closing, | 110. Ruling, |
| 68. Self opening and closing, | 111. Shading, |
| 69. Supplementary-reser- | 112. Stylus. |
| voir, | 23. Scholars' companions. |
| 73. Supports, | 116. Sealing-wax appliers. |
| 70. Tilting-reservoir. | |
| 74. Letter-sheets and postal | |
| cards. | |

CLASS 125.—STONE-WORKING. (XXXVIII.)

Subclasses.

- | | |
|----------------------------|-----------------------------|
| 2. Channeling-machines. | 12. Millstone paint-staffs. |
| 3. Chucks for rock-drills. | 13. Millstone-picks. |
| 4. Diamond-tools. | 14. Mining-machines. |
| 5. Dressing slate. | 15. Monuments. |
| 6. Dressing stone. | 18. Sawing stone. |
| 10. Drills. | 19. Tools. |
| 11. Millstone-dressing ma- | |
| chines. | |

DIVISION XXXIX.

EXAMINER A. W. COWLES.

CLASSES.—4, Baths and Closets; 137, Water Distribution.

CLASS 4.—BATHS AND CLOSETS. (XXXIX.)

Subclasses.

- | | |
|---------------------------------------|---|
| 1. Basins and stands. | 34. Float-valves. |
| 24. Bath and basin fittings. | 35. Plugs, covers, and strainers. |
| 2. Bathing apparatus— | 36. Sinks. |
| 25. Bidets. | 12. Urinals. |
| 26. Shower | 13. Vapor-baths. |
| 27. Tubs. | Water-closets— |
| 19. Bed-pans. | 16. Plunger, |
| 5. Closet-cisterns— | 22. Siphon, |
| 28. Combined supply and flush valves. | 17. Valved, |
| 29. Couplings, miscellaneous. | 23. Washout. |
| 30. Disinfecting apparatus. | 21. Water-closet and sewer ventilation. |
| 20. Dry closets— | 18. Water-closet attachments. |
| 31. Magazine, | 37. Water-closet couplings. |
| 32. Portable, | 15. Water-closet valves. |
| 33. Receptacles. | |

CLASS 137.—WATER DISTRIBUTION. (XXXIX.)

Subclasses.

- | | |
|--------------------------------|--------------------------------|
| 1. Aquariums. | Mains and pipes— |
| 32. Check-valves. | 73. Taps, |
| Cocks and faucets— | 72. Thawing, |
| 26. Compound, | 91. Thread-protectors |
| 4. Reciprocating valves, | 69. Valves. |
| 5. Sliding gates, | 59. Nozzle-holders. |
| 27. Tank, | 17. Nozzles— |
| 35. Thermal, | 55. Compressible, |
| 6. Tube-compressors, | 56. Flexible, |
| 7. Turning plugs. | 57. Splasher, |
| 9. Cut-offs and spouts. | 54. Systems. |
| 11. Fountains. | Pipe-couplings— |
| 12. Funnels. | 88. Ball-and-socket, |
| 33. Hose-patches. | 24. Detachable, |
| 13. Hydrants and plugs. | 34. Detachable and flexible, |
| 14. Irrigating and sprinkling— | 29. Permanent, |
| 63. Carts, | 89. Train-pipe, hand-operated, |
| 64. Heads, | 30. Valved. |
| 60. Insertors, | 53. Safety-valves. |
| 65. Pipes, | 18. Sampling-tubes. |
| 67. Pumps, | 20. Siphons. |
| 62. Roses and cans, | 40. Sprayers— |
| 61. Shakers, | 81. Cap, |
| 66. Systems. | 86. Centrifugal |
| Mains and pipes— | 84. Cutters, |
| 70. Cleaners, | 82. Piston, |
| 71. Cushions, | 87. Reaction, |
| 74. Fish-guards, | 83. Rose, |
| 90. Hose, | 85. Terminal-cock. |
| 77. Leak-detectors, | 21. Tanks |
| 75. Pipes, | 68. Automatic. |
| 76. Stoppers, | 54. Valves for inflation. |
| 78. Systems— | 31. Water-supply hose-holders. |
| 79. House, | |

DIVISION XL.

EXAMINER MERRITT.

CLASSES.—190, Baggage; 194, Check-Controlled Apparatus; 150, Cloth, Leather, and Rubber Receptacles; 232, Deposit and Collection Receptacles; 41, Fine Arts; 240, Lighting-Fixtures; 224, Pack Article Carriers; 229, Paper Receptacles; 206, Special Receptacles and Packages; 217, Receptacles.

CLASS 190.—BAGGAGE. (XL.)

(For definitions see Bulletin No. 8, p. 6.)

Subclasses.

- | | |
|-----------------------------|---------------------------------|
| 1. Convertible— | 56. Traveling-bags— |
| 2. Bed, | 57. Lock-plate handle-fasten- |
| 3. Bureau— | 58. ings, |
| 6. Front-opening— | 59. Materials and patterns, |
| 7. Compartment-front, | 60. Safety-attachers, |
| 4. Top and front opening— | 59. Strap-loop fasteners, |
| 5. Compartment-top, | 48. Top-opening. |
| 8. Chair, | 19. Trunks— |
| 11. Desk or table— | 20. Circular-end, |
| 12. Camp-kits, | 37. Corner shields and buffers, |
| 9. Shelved— | 21. Extensible and sec- |
| 10. Desk-flap, | 22. tional— |
| 13. Wardrobe— | 22. Telescopic, |
| 14. Extensible— | 36. Followers, |
| 15. Telescopic. | 24. Frames and interior |
| 16. Sample-cases— | braces, |
| 17. Link-supported tray. | 39. Handles, |
| 41. Traveling-bags— | 27. Harness, |
| 60. Article-attachers, | 40. Materials, |
| 55. Bag-fastening handles, | 26. Protecting-harness, |
| 42. Combined, | 25. Reinforcing-strips, |
| 51. Compartments and parti- | 38. Supporting devices, |
| tions— | 29. Tray movers and sup- |
| 52. Exterior and auxiliary, | porters— |
| 44. Extensible— | 30. Lid-operated move- |
| 45. Telescopic— | ment, |
| 46. Auxiliary opening, | 34. Link connections and |
| 47. Rack-fastener, | props, |
| 54. Frame and bag-leather | 31. Pivoted-tray— |
| joints, | 32. Vertical-pivot, |
| 43. Frameless and folding, | 33. Sliding-tray, |
| 49. Frames— | 35. Trays, |
| 50. Stays, | 28. Valances, |
| 57. Handles— | 23. Wall. |
| 58. Fasteners, | |

CLASS 194.—CHECK-CONTROLLED APPARATUS. (XL.)

(For definitions see Supplement No. 2, p. 2553.)

Subclasses.

- | | |
|---------------------------|-----------------------------|
| 4. Anomalous check— | 97. Fraud-preventives— |
| 5. Fluid-delivery. | 98. Check-exhibitors, |
| 96. Check-engaged alarm. | 99. Combined size and mate- |
| 6. Check in circuit— | rial testers, |
| 7. Article-delivery, | 100. Material-testers— |
| 8. Telephones. | 101. Magnets, |
| 9. Check-operated switch— | 102. Size-testers, |
| 10. Article-delivery, | 103. Weight-testers, |
| 11. Electric meters, | 92. Lock-preventing— |
| 12. Exhibitors, | 93. Article-delivery. |
| 13. Fluid-delivery, | 17. Lock-releasing— |
| 14. Induction-coils, | 18. Gravity— |
| 15. Phonographs, | 19. Forwardly-turning re- |
| 16. Telephones. | leased part— |
| 94. Check-rotated wheel. | 22. Article-delivery— |
| 72. Connectors— | 23. Chance, |
| 91. Article-delivery, | 24. Endless carrier— |
| Check— | 25. Magazine, |
| 74. Reciprocating and | 26. Rotary feed, |
| turning parts— | 27. Sliding pusher, |
| 75. Article-delivery, | 28. Exhibitors, |
| 76. Chance and game ap- | 29. Fluid-delivery, |
| paratus, | 30. Game apparatus, |
| 77. Fluid-delivery, | 20. Measuring instru- |
| 78. Reciprocating parts— | ments— |
| 79. Article-delivery— | 21. Scales, |
| 80. Sliding pusher, | 31. Phonographs, |
| 81. Chance and game ap- | 32. Reciprocating released |
| paratus, | part— |
| 82. Fluid-delivery, | 37. Article-delivery— |
| 83. Turning parts— | 38. Endless carrier, |
| 88. Article-delivery, | 39. Sliding pusher, |
| 89. Chance and game ap- | 40. Article-securing |
| paratus, | stands, |
| 84. Concentric— | 41. Chance and game ap- |
| 85. Article-delivery, | paratus, |
| 86. Chance and game | 42. Exhibitors, |
| apparatus, | 43. Fluid-delivery, |
| 87. Fluid-delivery, | 33. Measuring instru- |
| 90. Fluid-delivery, | ments— |
| 73. Gravity. | 34. Pull-testers, |

CLASS 194.—Continued.

- | | |
|----------------------------|---------------------|
| Lock-releasing— | Lock-releasing— |
| Gravity— | Thrust— |
| Reciprocating released | Pivoted deter |
| part— | Reciprocating |
| Measuring instru- | mover— |
| ments— | 59. Door and |
| 35. Scales, | 60. Fluid-del |
| 36. Strike-testers, | 56. Measuring |
| 44. Telephones, | ments, |
| 45. Reset turning released | 61. Turning co |
| part— | er— |
| 48. Article-delivery, | 63. Article-de |
| 49. Article-securing | 64. Article-se |
| stands, | stands, |
| 50. Chance and game ap- | 65. Door and |
| paratus, | 66. Fluid-del |
| 51. Door and lid locks, | 62. Measuring |
| 52. Exhibitors, | ments, |
| 53. Fluid-delivery, | 67. Reciprocating |
| 46. Measuring instru- | 68. Article-del |
| ments— | 69. Reciprocating |
| 47. Scales, | mover, |
| Thrust— | 70. Turning co |
| Pivoted detent— | 1. Miscellaneous— |
| 71. Article-delivery, | 2. Article-delivery |
| 55. Reciprocating coin- | 3. Fluid-delivery. |
| mover— | 95. Shutter. |
| Article-delivery— | |
| Sliding pusher, | |

CLASS 150.—CLOTH, LEATHER, AND RUBBER TACKLES. (XL.)

(For definitions see Bulletin No. 17, p. 33.)

Subclasses.

- | | |
|---------------------------|----------------------|
| Bags— | Mail-bags— |
| 1. Body construction, | 23. Fasteners— |
| 3. Closures— | 26. Pivoted catches |
| 10. Expanding-spring, | bar, |
| 6. Folding bar and clamp, | 25. Stud and keyh |
| 7. Folding-flap, | 24. Tongue and st |
| 8. Mouth piece, cap, or | 27. Turn-bolt with |
| stopper, | 14. Multiple pockets |
| 5. Parallel bars, | Porte-monnaies ar |
| 4. Pivoted jaws, | books— |
| 9. Seam-valve, | 34. Article-holding, |
| 11. Shrirring-cords, | 38. Bill-holding, |
| 12. Handles, | 28. Body constructi |
| 2. Harvesting. | 32. Blanks, |
| 48. Baskets and buckets— | 30. Gussers and p |
| 49. Folding-frame, | 33. Handles, |
| 50. Rigid-bottom, | 31. Stays and bra |
| 51. Rigid-frame. | 29. U-frame, |
| 52. Covers and cases— | 39. Card and ticket |
| 53. Collar and cuff, | 42. Closures— |
| 54. Tire and wire coil. | 43. Band or strap |
| Mail-bags— | 44. Collapsible wa |
| 15. Closures— | 45. Folding-frame |
| 17. Collapsible-frame— | 46. Hinged-lid, |
| 19. Folding-flap, | 37. Coin-holding, |
| 18. Quadrangular, | 35. Combination, |
| 21. Folding-flap— | 40. Key-pouches, |
| 22. Corner-fold, | 36. Puzzle and sec |
| 20. Manifold, locking- | partment, |
| tongue, | 47. Safety attachme |
| 16. Pivoted jaws, | 41. Stamp-books. |
| 13. Construction, | |

DIVISION XL.—CONTINUED.

CLASS 232.—DEPOSIT AND COLLECTION RECEPTACLES. (XL.)

(For definitions see Bulletin No. 8, p. 4.)

Subclasses.

- | | |
|-----------------------------------|-------------------------------------|
| 2. Ballot-boxes— | 27. Letter-boxes— |
| 3. Ball. | 28. Collection and delivery, |
| 44. Closures and chutes— | 30. Collection devices— |
| 55. Coin-trap— | 31. Safety-receptacle— |
| 56. Endless carrier, | 32. Auxiliary, |
| 57. Pivoted— | 24. Compartment— |
| 58. Coöperating chute-closure— | 25. Coöperative closures— |
| 59. Multiple-trap, | 26. Distributing-guide, |
| 60. Rotatable— | 38. Frame construction, |
| 61. Turnstile, | 19. House— |
| 62. Gravity reverse-checks, | 20. Collection and delivery— |
| 45. Letter-box— | 21. Compartment, |
| 53. Discharge, | 22. Door or window jamb, |
| 54. Guard-fingers, | 23. Inside fastener, |
| 46. Name-plate, | Indicators— |
| 47. Pivoted trap— | 37. Door-operated, |
| 48. Double, | 33. Package clips and pockets, |
| 49. Pocket— | 28. Pivoted-receiver, |
| 50. Bottomless, | 34. Signals— |
| 51. Integral door, | 35. Sight— |
| 52. Turnstile, | 35. Door-controlled, |
| 63. Serrated shelves. | 36. Sound— |
| 7. Fare-boxes— | 36. Door-controlled, |
| 14. Change-gates, | 39. Supports and fastenings— |
| Collection devices— | 40. Movably-attached, |
| 15. Safety-receptacle— | 18. Ticket registers and recorders. |
| 16. Auxiliary, | 41. Milk-receptacles— |
| 13. Illumination, | 42. Door or window jamb, |
| 9. Multiple coin slot and runway, | 43. Funnel-filler. |
| 12. Receivers, | 1. Miscellaneous. |
| 10. Ticket and change, | 4. Savings-boxes— |
| 11. Ticket, car, | 5. Inspection, |
| 8. Ticket punching and canceling. | 6. Frame-fastenings. |
| 17. Letter-boxes— | |
| 29. Auxiliary, coöperating, | |

CLASS 41.—FINE ARTS. (XL.)

Subclasses.

- | | |
|--------------------------|----------------------------|
| 2. Artificial flowers. | 12. Medals. |
| 1. Artists' appliances. | 21. Metal ornamentation. |
| 19. Badges. | 34. Mosaics and inlaying. |
| 3. Banners and flags. | 13. Ornamenting cloth. |
| 4. Canvas-stretchers. | 15. Pictures. |
| 7. Easels. | 32. Plastic ornamentation. |
| 22. Etching designs. | 16. Sculpture. |
| 10. Gilding, leaf. | 23. Surface ornamentation— |
| 35. Glass ornamentation— | 33. Vitreous. |
| 36. Frosting— | 18. Transfers. |
| 37. Abrading, | |
| 38. Chipping. | |

CLASS 240.—LIGHTING-FIXTURES. (XL.)

Subclasses.

- | | |
|------------------------------------|------------------------------|
| 1. Canopy shades and reflectors. | 30. Drop-lights— |
| 2. Ceiling-blocks. | 31. Cord-supports, |
| 3. Chandeliers, gas. | 32. Counterweight, |
| 4. Conduits— | 32. Friction and clutch, |
| 5. Boxes, pipe connections, | 33. Spring-drum. |
| 6. Conductors, bracket-supported, | 34. Gas brackets and valves. |
| 7. House-wiring— | 35. Gas-fittings. |
| 8. Outlet-boxes— | 36. Globe attachments. |
| 9. Adjustable-face, | 37. Globe-manipulators. |
| 10. Plugged inlets, | 38. Globes. |
| 11. Removable-wall, | 39. Guards. |
| 12. Integral sections, | 40. Harps and hangers. |
| 13. Joints, | Lights— |
| Junction-boxes— | Incandescent— |
| 14. Thermal cut-outs. | Special features— |
| 15. Overground— | 41. Chandelier— |
| 16. Panel-board type, | 42. Couplings, |
| 17. Underground— | 42. Extensible. |
| 18. Panel-board type, | 43. Posts. |
| 19. Lining, | Reflectors— |
| 20. Plural pipes— | 44. Hooded, |
| 21. Bracket-supported, | 45. Miscellaneous, |
| 22. Separable-wall— | 46. Side. |
| 23. Conductors, bracket-supported, | 47. Refracting attachments. |
| 24. Plural pipes, | Shade-supports— |
| 25. Wire-drawing— | 48. Base, |
| 26. Creepers, | 49. Candle, |
| 27. Motors, | 50. Double-clamp. |
| 28. Sectional rods. | 51. Drop, |
| Drop-lights— | 52. Miscellaneous, |
| 29. Burner attachments, | 53. Spider, |
| | 54. Top, |
| | 55. Umbrella. |
| | 56. Street-light hangers. |

CLASS 224.—PACKAGE AND ARTICLE CARRIERS. (XL.)

(For definitions see Bulletin No. 9, p. 4.)

Subclasses.

- | | |
|---------------------------------|-------------------------------|
| 5. Body and belt attached— | Hand— |
| 6. Baby or patient, | Handle and strap— |
| 26. Bag, case, or frame— | 58. Strap-loop, |
| 27. Chatelaine, | 52. Handle, bar, and strap— |
| 25. Bracket, | 53. Harness, |
| 13. Cartridge— | 54. Strap-tightener, |
| 22. Belt or sling— | 49. Sling, |
| 23. Loop and pocket holders— | 47. Traveling-bag, |
| 24. Skeleton, | 48. Tray. |
| 20. Block-cell, | 43. Saddle-bags— |
| 17. Compartment, | 44. Traveling-bag. |
| 14. Garment-attached, | 29. Vehicle— |
| 21. Individual holders, | 30. Bicycle— |
| 15. Magazine— | 39. Bracket— |
| 16. Longitudinal feed, | 40. Folding. |
| 18. Revolving, | 41. Handle-bar supported, |
| 19. Tilting pocket, | 31. Convertible and combined, |
| 7. Game, | 42. Hooks, |
| 28. Hand or wrist attached, | 32. Receivers— |
| 8. Knapsack— | 33. Collapsible-frame, |
| 9. Convertible— | 35. Forward-reach supported, |
| 10. Tent, | 36. Handle-bar supported, |
| 12. Slings, | 37. Wrapper, |
| 11. Slings with belts. | 38. Spring-holders— |
| 45. Hand— | Frame. |
| 46. Convertible and combined, | 4. Watch and clock. |
| 50. Handle and clamping plates— | 1. Weapon— |
| 51. Strap-tightener, | 2. Sheaths and scabbards— |
| 55. Handle and strap— | 3. Hangers. |
| 56. Cord or chain— | |
| 57. Cord-hook, | |

DIVISION XL.—CONTINUED.

CLASS 229.—PAPER RECEPTACLES. (XL.)

(For definitions see Supplement No. 1, p. 2584.)

Subclasses.

- | | |
|-------------------------|-------------------------|
| 53. Bags— | 18. Folded-blank boxes— |
| 57. Bottoms— | 19. Sectors, |
| 58. Square | 20. Slide— |
| 59. Corner-slits, | 20. Dispensing, |
| 60. Diamond-fold, | 30. Trays— |
| 61. Seamless, | 32. Corner-flaps— |
| 62. Closures— | 33. Cover extension, |
| 63. Cord, | 34. Infolding side, |
| 64. Fluted, | 35. Interlocking— |
| 65. Metallic, | 36. Cover extension, |
| 56. Compartment, | 31. Corner-folds |
| 66. Opening, | 22. Triangular, |
| 55. Reinforced, | 37. Tubes— |
| 54. Satchel. | 38. Closures, inserted |
| 67. Barrels. | 39. flaps— |
| 6. Boxes— | 103. Interlocking, |
| 43. Closures— | 40. Wrappers. |
| 45. Fasteners— | 68. Envelops. |
| 46. Cord, | 75. Blanks, |
| 47. Metallic, | 76. Closures— |
| 44. Hinged, | 77. Fasteners— |
| 41. Collapsible, | 78. Metallic, |
| 15. Compartment, | 79. Seal, |
| 12. Cylindrical— | 80. Sealing— |
| 13. Pressed bottoms and | 81. Perforated, |
| tops, | 83. Soluble-dye, |
| 7. Dispensing, | 82. Tongues, |
| 42. Division-plates, | 84. Tongue, |
| 52. Handles, | 69. Coin, |
| 14. Lined, | 70. Coupon, |
| 51. Openers, ripping, | 71. Display, |
| 8. Ornamental, | 85. Openers— |
| 8.5. Savings, | 86. Cord, |
| 48. Seams, | 72. Pocket, |
| 9. Slide— | 73. Return, |
| 10. Compartment, | 74. Tag. |
| 11. Dispensing, | 93. Tubes, cylindrical. |
| 49. Stays— | 1. Vessels— |
| 50. Cord. | 2. Angular, |
| 16. Folded-blank boxes— | 3. Cylindrical— |
| 24. Buckets— | 4. Pressed, |
| 25. Closures— | 5. Liquid-proofed. |
| 26. Integral-cover, | 87. Wrappers— |
| 27. Compartment— | 88. Bag, |
| 28. Cells— | 89. Bottle— |
| 29. Wrapper, | 90. Corrugated, |
| 21. Cylindrical, | 91. Padded, |
| 17. Dispensing, | 92. Mailing-sheets. |
| 23. Multiple, | |

CLASS 206.—SPECIAL RECEPTACLES AND PACKAGES. (XL.)

(For definitions see Bulletin No. 18, p. 14.)

Subclasses.

- | | |
|--------------------------------|------------------------------|
| 46. Packages— | 8. Receptacles— |
| 50. Cloth bolts, boards, etc., | 9. Hat and headwear— |
| 47. Combination— | 9. Racks, frames, and |
| 48. Matches with cigarettes, | rings, |
| etc., | 10. Insect-proof, |
| 56. Dispensing— | 20. Match-safes— |
| 58. Paper-rolls, | 28. Baffle, |
| 57. Paper sheets, | 31. Box-holders and con- |
| 49. Embroidery, laces, and | vertible boxes, |
| 56. ruching, | 29. Match-packages, |
| 68. Incandescent mantles, | 33. Pocket— |
| Multiple article— | 35. Cigar - cutters and |
| 65. Nested, stayed, or in- | wind-guards, |
| terbraced, | 34. Withdrawal igniting, |
| 66. Needles and pins, | 36. Scratchers and wind- |
| 67. Pencils, etc., | guards, |
| 60. Plates and sheets— | 30. Side-supported, |
| 61. Fly-paper, | 21. Single-delivery— |
| 62. Fragile and sensitive, | 22. Grooved roller, |
| 51. Ribbons, braids, and | 23. Grooved slide— |
| trimmings— | 24. Horizontal move- |
| Rolls or spools— | ment, |
| 53. Clamps— | 25. Picker-arm, |
| 54. Centrally-attached, | 116. Sliding pusher— |
| 55. Layer-retained, | 27. Pocket, |
| 62. Inclosed, | 32. Withdrawal igniting, |
| 59. Rolls and reels, | 12. Medicine-chests, |
| 60. Rubber bags and tubing, | 13. Musical instruments— |
| 63. Stationery, | 14. Violin, |
| 64. Thread, | 15. Phonograph-cylinders, |
| 70. Watch-springs. | 37. Pocket and personal use— |
| 1. Receptacles— | 41. Cigars and tobacco, |
| 2. Acid-proof, | 38. Combination, |
| 3. Ammunition, | 43. Hypodermic syringes, |
| 4. Camp and lunch kits, | etc., |
| 44. Display— | 42. Pellets and granules, |
| 45. Terraced or stepped | 39. Ticket-cases— |
| shelves, | 40. Ejecting, |
| 5. Eyeglass or spectacle— | 19. Sacramental, |
| 6. Hinged parts, | 16. Tools and appliances— |
| 11. Fur, | 17. Bits and drills, |
| 7. Garment, | 18. Watch-movement. |

CLASS 217.—WOODEN RECEPTACLES. (XL.)

(For definitions see Supplement No. 4, p. 3005.)

Subclasses.

- | | |
|-----------------------------|--------------------------|
| 72. Barrels— | Boxes— |
| 98. Bungs— | Cells— |
| 113. Bushings, | 24. Clip, |
| 112. Extractors, | 25. Cord, |
| 106. Locking— | 35. Cushioned, |
| 107. Bayonet-and-screw, | 26. Plate— |
| 108. Expanding— | 27. Cushioned, |
| 109. Gasket, | 28. Pocket, |
| 110. Plugs— | 29. Separable, |
| 111. Frangible-dia- | 30. Strip— |
| phragm, | 31. Locking— |
| 114. Protectors and cancel- | 32. Angular, |
| ers, | 33. Bent, |
| 99. Valved— | 34. Cushioned, |
| 100. Automatic— | 56. Closures— |
| 103. Collapsible, | 57. Hinged— |
| 102. Controllers, | 58. Display, |
| 104. Flexible-dia- | 59. Sliding, |
| phragm, | 60. Supports— |
| 105. Liquid-seal, | 61. Detachable, |
| 101. Safety, | 62. Sliding— |
| 73. Cases, | 63. Display, |
| 76. Closures— | 7. Compartment— |
| 77. Braced, | 10. Display, |
| 81. Covers— | 8. Folding— |
| 82. Compartment, | 9. Display, |
| 83. Hinged, | 36. Crates— |
| 84. Sliding, | 37. Bicycle— |
| 85. Wire, | 38. Folding, |
| 80. Croze and chamfer, | 52. Cushioned— |
| 78. Expanding— | 53. Padded, |
| 79. Wedge, | 54. Spring— |
| 89. Fasteners, | 55. Spiral, |
| 87. Gates, | 49. Cylindrical, |
| 75. Compartment, | 40. Fruit-box, |
| 86. Followers, | 43. Knockdown— |
| 91. Hoops— | 44. Cylindrical and hile |
| 92. Elastic, | Folding— |
| 93. Retainers, | 47. Horizontal-pivot |
| 94. Tighteners— | 46. Horizontal and ver- |
| 95. Screw, | vertical pivot, |
| 90. Hoop-sockets, | 48. Vertical-pivot, |
| 96. Joints, | 45. Sectional, |
| 97. Moisteners, | 39. Poultry, |
| 88. Staves, | 42. Ventilating, |
| 74. Ventilated. | 51. Wired slats, |
| 115. Barrel-stands— | 11. Display, |
| 121. Racks, | 64. Followers, |
| 118. Rolling, | 65. Joints, |
| 119. Swing— | 12. Knockdown |
| 120. Roller-supports, | Folding— |
| 116. Tilting— | 15. Horizontal-pivot, |
| 117. Rolling. | 14. Horizontal and ver- |
| 122. Baskets— | cal pivot, |
| 123. Bottoms, | 16. Vertical-pivot, |
| 124. Closures, | 13. Sectional, |
| 125. Handles. | 69. Stays— |
| 1. Bent— | 70. Driving— |
| 2. Angular. | 71. Wire, |
| 5. Boxes— | 66. Straps— |
| 6. Block, | 67. Corrugated, |
| 127. Bottle-mailing cases, | 68. Wire, |
| 18. Cells— | 17. Walls. |
| 23. Bent, | 126. Bucket-ears. |
| 19. Bottle— | 3. Linings. |
| 20. Cord, | 4. Tanks. |
| 21. Plate, | |
| 22. Strip, | |

DIVISION XLI.

EXAMINER BROWN.

CLASSES.—213, Railway Draft Appliances; 152, Resilient Tires and Wheels.

CLASS 213.—RAILWAY DRAFT APPLIANCES. (XLI.)

Subclasses.

- | | |
|-----------------------------|-------------------------------|
| 39. Buffers— | Couplings— |
| 60. Draw-bar actuated, | Janney type— |
| 2. Fluid-pressure. | 12. Pivoted vertical latches, |
| Bumpers— | 13. Safety-brackets, |
| 3. Rigid. | 14. Vertical sliding pins, |
| Couplings— | Link— |
| 35. Arrow-head and jaws, | 62. End openers, |
| 36. Balls, | 63. Handled, |
| 37. Beveled link and fixed | 15. Star-wheel detent, |
| catch, | 47. Link-lifters, |
| 38. Beveled link and swing | 49. Miller hook— |
| catch, | 66. Swing-heads, |
| 61. Chains, | 50. Pins and links, |
| 40. Combined air-brake, | Pin-supports— |
| Combined draw-bar and | 16. Balls, |
| hook— | 51. Gravity, |
| 4. With link, | 52. Spring, |
| 43. Headed link and V-slot, | 54. Rolling detent, |
| 44. Hook and catch, | 53. Rotary heads, |
| 45. Hook and link— | 55. Sliding detent, |
| 5. Combined, | 56. Swing-pins, |
| 65. Janney type— | 57. Tools, |
| 6. Emergency-releases, | 58. Train, |
| 7. Gravity-locks, | 17. Twin jaws, |
| 8. Horizontal sliding | 59. Uncoupling-levers. |
| latches, | 42. Draw-bars— |
| 9. Knuckle-openers, | 41. Continuous, |
| Knuckle-openers and | 64. Friction-buffers, |
| locks— | 18. Street-car. |
| 10. Combined, | Locomotives— |
| 11. Pivoted horizontal | 19. Side-track push-rods. |
| latches, | 20. Street-car poles. |

CLASS 152.—RESILIENT TIRES AND WHEELS. (XLI.)

Subclasses.

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|---------------------------|-------------------------|
| 28. Spring-wheels. | Tires— |
| Tires— | Pneumatic— |
| 1. Cushion— | Armored— |
| 2. Antislipping, | 16. Antislipping, |
| 3. Armored— | 17. Externally, |
| 4. Antislipping, | 18. Internally, |
| 5. Fastening devices— | 19. Divided treads, |
| 7. Sectional channels, | 20. Fastening devices— |
| 6. Inclosed cores, | 21. Sectional channels, |
| 8. Metallic springs, | 22. Multiple chambers, |
| 9. Sectional, | 23. Repairing— |
| 10. Cushion and pneumatic | 24. Bandages, |
| combined, | 25. Healing compounds, |
| 11. Inflating— | 26. Plugs and patches, |
| 12. Valves, | 27. Tools. |
| 13. Pneumatic— | |
| 14. Antislipping, | |

DIVISION OF TRADE-MARKS AND DESIGNS.

EXAMINER CHAPMAN.

CLASS 165.—Designs; Prints and Labels; Trade-Marks.

CLASS 165.—DESIGNS.

The subclasses conform as nearly as possible to those of the mechanical classes.

PRINTS AND LABELS.

Not classified, but arranged in chronological order and preserved for reference in the Examiner's room.

TRADE-MARKS.

Classification of Merchandise.

1. Raw or partly-prepared materials.
2. Receptacles.
3. Baggage, horse equipments, portfolios, and pocket-books.
4. Abrasive, detergent, and polishing materials.
5. Adhesives.
6. Chemicals, medicines, and pharmaceutical preparations.
7. Cordage.
8. Smokers' articles, not including tobacco products.
9. Explosives, firearms, equipments, and projectiles.
10. Fertilizers.
11. Inks and inking materials.
12. Masonry materials.
13. Hardware and plumbing and steam-fitting supplies.
14. Metals and metal castings and forgings.
15. Oils and greases not intended for food.
16. Paints and painters' materials, not including oils and polishes.
17. Tobacco products.
18. Agricultural and dairy machinery and parts thereof.
19. Vehicles, not including engines.
20. Linoleum and oiled cloth.
21. Electrical apparatus, machines, and supplies.
22. Games, toys, and sporting goods.
23. Cutlery, machinery, and tools, and parts thereof.
24. Laundry appliances and machines.
25. Locks and safes.
26. Measuring and scientific appliances.
27. Horological instruments.
28. Jewelry and precious-metal ware.
29. Brooms, brushes, and dusters.
30. Crockery, earthenware, and porcelain.
31. Filters and refrigerators.
32. Furniture and upholstery.
33. Glassware.
34. Heating, lighting, and ventilating apparatus, not including electrical apparatus.
35. Belting, hose, machinery packing, and non-metallic tires.
36. Musical instruments and supplies.
37. Paper and stationery.
38. Publications.
39. Clothing.
40. Fancy goods, furnishings, and notions.
41. Canes, parasols, and umbrellas.
42. Knitted, netted, and textile fabrics.
43. Thread and yarn.
44. Dental, medical, and surgical appliances.
45. Beverages, non-alcoholic.
46. Foods and ingredients of foods.
47. Wines, except medicated.
48. Malt extracts and liquors.
49. Distilled alcoholic liquors.
50. Merchandise not otherwise classified.

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